

# SONY

FEATURES AND  
SPECIFICATIONS SUBJECT  
TO CHANGE WITHOUT  
NOTICE



2000 HOME AUDIO

## Midi Systems

*Prepare to be amazed*

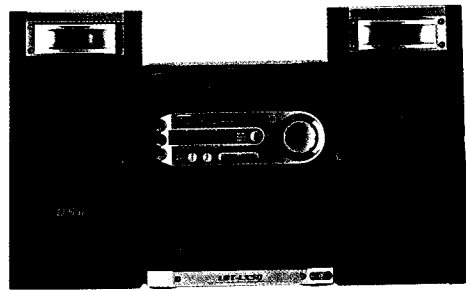
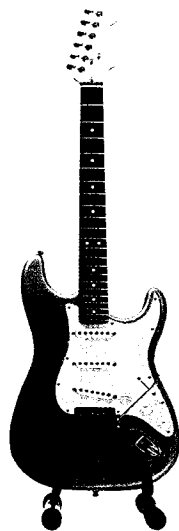


SONY HOME ENTERTAINMENT UNIVERSE

SONY HELPS  
YOU PUT  
ON A SHOW

Whether you like to listen to music – or to perform music yourself – Sony's mid-sized systems are ready! Feel the impact of powerful amplifiers. Brace yourself for the bass of Direct Radiating Superwoofers. And surround yourself with Dolby® Pro Logic® sound. Then plug in a guitar and wail away with your favorite bands. Or plug in a mic and sing along with the best of them!

**GUITAR PLAY-ALONG** For some, music is not just a spectator sport. Music means learning the changes, mastering the riffs and playing along with the best of them. That's why Sony engineers (many of whom also play) designed these mid-sized systems with a guitar input. You simply plug in your guitar and play along with your favorite bands!



**KARAOKE SING-ALONG** If you're more the type for vocals than for instrumentals, take advantage of the karaoke function. It enables you to plug in a microphone and sing along with the music. You can even mix the guitar and mic simultaneously to bring out your star quality. And karaoke is perfect for an evening of entertainment with a group of friends.

**SONY'S HORN TWEETER** To support the guitar input and to get the best from all your music, Sony endowed these systems with a new, high-output horn tweeter. It's the same type of driver incorporated in the stacks of speakers used at rock concerts. And its controlled dispersion minimizes room reflections for clearer sound and better stereo imaging.

*Plug and play: plug in your guitar and play along with your favorite bands!*

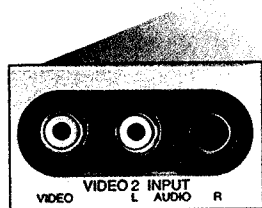
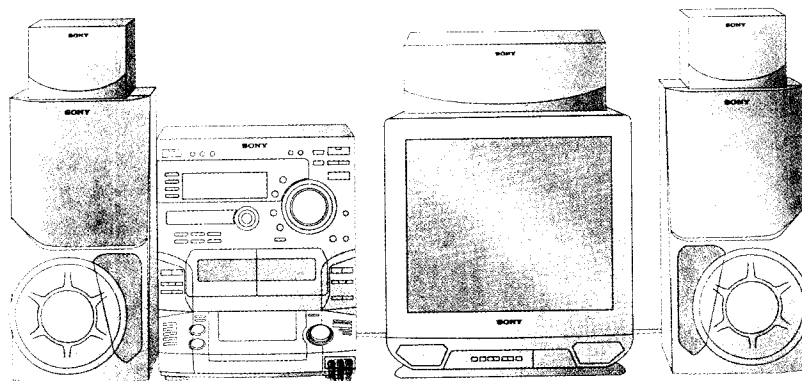
**DIRECT RADIATING SUPERWOOFER (DSW)** Sony matches the high output of the horn tweeter with a Direct Radiating Superwoofer (DSW). It's a second, 7" bass driver that's been optimized and loaded specifically for deep bass. As a result, the speakers achieve high sound pressure levels (SPLs). You'll hear the deepest musical notes with soul-satisfying depth and power.



*One 7" driver handles midbass while Sony's Direct Radiating Subwoofer (DSW) concentrates on the deepest bass – for sound you can feel.*

*These systems are key components in the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!*

SONY HOME ENTERTAINMENT UNIVERSE



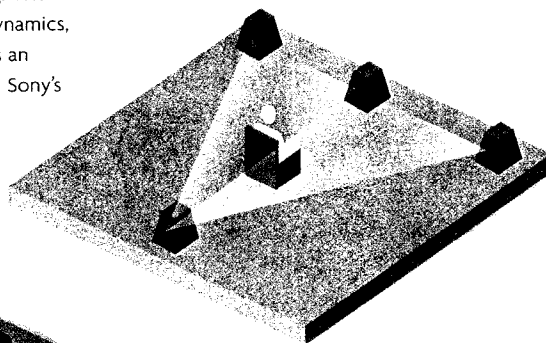
Front A/V inputs for hooking up your video game console (or camcorder).

**FRONT A/V INPUTS** The LBT-LX90AV and LX50 both offer front panel A/V inputs for a Handycam® camcorder or videogame console. Video games come alive when you hear each bone-crushing car crash and quarterback blitz in true high fidelity sound!

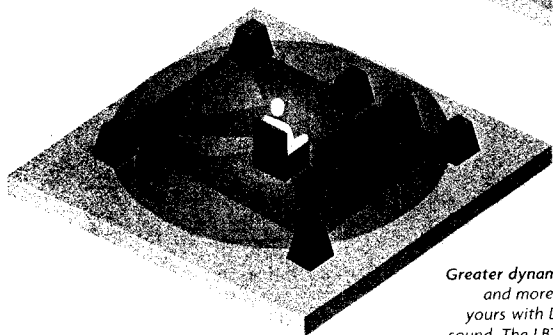
**DOLBY PRO LOGIC DECODING AND DOLBY DIGITAL™ READY 5.1 CHANNEL INPUTS** DVD players. Digital Satellite System Receivers. VHS Hi-Fi and Stereo TV. To get the best out of today's video sources, connect your television to the Sony LBT-LX90AV. Its Dolby Pro Logic decoding will unlock the surround channels in so many video sound tracks. There's more. The system's 5.1-channel inputs are perfect for a DVD Player with Dolby Digital decoding. With Dolby Digital, you'll hear even better dynamics, even greater separation. Dolby Digital is an amazing entertainment experience. And Sony's LBT-LX90AV helps bring it home.

**5-CD CHANGER** Sony invented the 5-CD Carousel Changer. Which might explain why these systems have carousel changers of such spectacular refinement. For example, each has a digital output for connection to a MiniDisc Recorder. And a front panel Jog Shuttle dial speeds you to the track you want to hear.

**LOOP, FLASH AND GROOVE** For years, hip-hopppers have been "scratching" LPs to create the sound effects that drive dance music. Now it's your turn. Loop and Flash give you skipping and pulsing effects during CD playback. And the preamplifier Groove mode gives your music incredible bass.



Feel the impact you've been missing. Sony's LBT-LX90AV system offers Dolby Pro Logic surround sound.



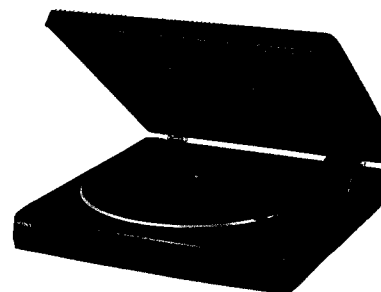
Greater dynamics, better separation and more complete bass can be yours with Dolby Digital surround sound. The LBT-LX90AV offers Dolby Digital Ready 5.1-channel inputs.



You can operate the optional MDS-M100 MiniDisc recorder with the Midi System remote control. And you can connect via the system's optical output for super-high-quality digital-to-digital recording!

**THE MINIDISC OPTION** You can complete these systems with MiniDisc, the digital way to record\* music. Just add the optional MDS-M100 MiniDisc recorder. This sleek, stylish component was specifically designed to match the dimensions, color and operating style of Sony's latest LBT systems. In fact, the Midi System remote controls also operate the MDS-M100. And both systems include a digital output for digital-to-digital recording from Compact Disc!

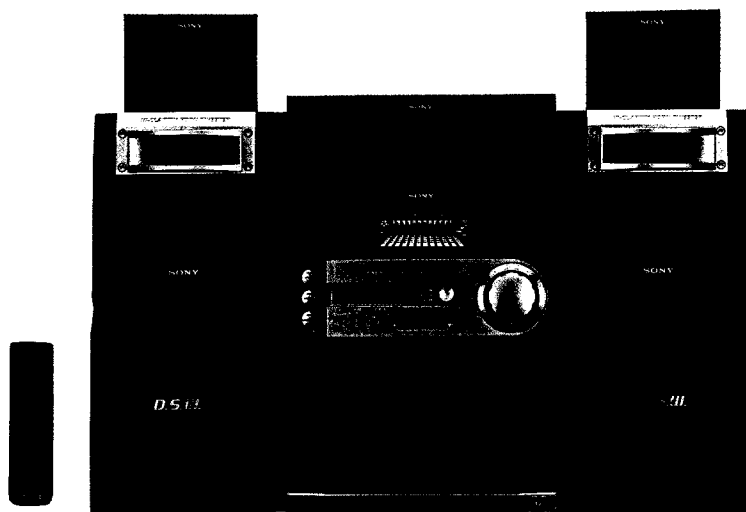
**SONY HASN'T FORGOTTEN YOUR LPS** The people who co-invented the Compact Disc still have fond memories of LP records. That's why Sony still builds turntables, including the PS-LX56S, with built-in phono preamplifier. The design and color match these Midi Systems.



Have LPs? Connect the optional PS-LX56S for superb playback.

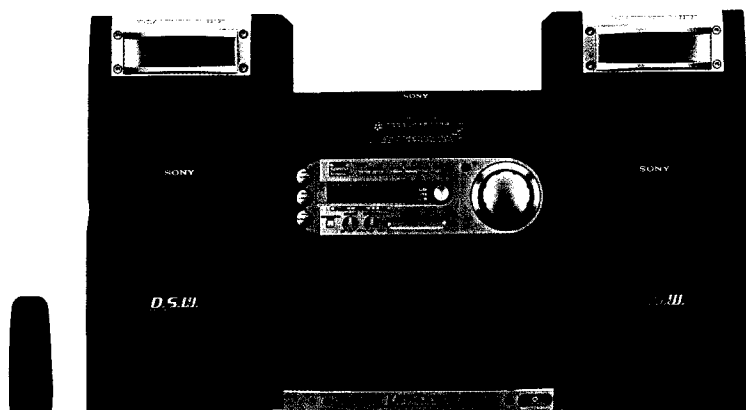
### LBT-LX90AV BOOKSHELF SYSTEM

- ▲ 355 watts total system power
- Stereo Mode: 110 watts per channel, x2, 8 ohms, 120 – 10,000 Hz, 10% THD
- ▲ Surround Mode: 110 watts x2 + 45 watts x3, 8 ohms, 1,000 Hz, 10% THD
- 5-disc CD changer
- Guitar input with guitar karaoke mix
- ▲ Dolby Digital Ready 5.1-channel inputs
- ▲ Dolby Pro Logic surround sound decoding
- ▲ UniCommander® remote control also operates Sony TVs
- ▲ Five speaker system including magnetically shielded Center and Surround
- Concert monitor style 3-Way main speakers
- 7-inch Direct Radiating Superwoofer (DSW)
- Horn tweeter
- Tuner with 20 FM + 10 AM station presets
- High-speed dubbing auto reverse cassette decks
- 5-Band equalizer with 10 factory, 5 user presets
- Front A/V inputs for game or camcorder
- Digital output for MiniDisc recorder
- Subwoofer output



### LBT-LX50 BOOKSHELF SYSTEM

- 280 watts total system power
- 140 watts per channel, x2, 8 ohms, 120 – 10,000 Hz, 10% THD
- 5-disc CD changer
- Guitar input with guitar karaoke mix
- Front A/V inputs for game or camcorder
- Concert monitor style 3-Way main speakers
- 7-inch Direct Radiating Superwoofer (DSW)
- Horn tweeter
- Groove bass enhancement
- Large color fluorescent display
- Surround output
- Tuner with 20 FM + 10 AM station presets
- High-speed dubbing auto reverse cassette decks
- Tape Automatic Music Sensor (AMS)
- 5-Band equalizer with 10 factory, 5 user presets
- Sleep/Timer
- Digital output for MiniDisc recorder
- Full-function Remote Commander® unit



**20 FM + 10 AM STATION PRESETS** For fast access to your favorite stations.

**5-DISC CAROUSEL CHANGER** This system is sleek and easy to use, providing quick access between discs.

**AUTO FUNCTION** System that selects the CD or Tape function as soon as you press CD or Tape Play.

**AUTOMATIC TAPE TYPE SELECTOR** The cassette deck automatically recognizes and adjusts for Type I and Type II tape.

**CD PLAY MODES** Fast, flexible options include Continue Play (to play discs straight through), Shuffle Play (to play familiar CDs in an unfamiliar track sequence), and Program Play (to let you create your own customized running order of CD tracks).

**CD SYNCHRO RECORDING** A system that simplifies making cassettes from Compact Disc. It releases from Record/Pause mode automatically when the CD player goes into Play.

**CD TEXT DISPLAY** Text information is encoded on a new generation of Compact Discs. When you play these CDs, the system will display artist names, disc names, and track titles.

**DAILY TIMER** Get out of bed! The systems can wake you to music.

**DIGITAL OUTPUT** An optical digital output connects the system's CD changer directly to an optional Sony MDS-M100 MiniDisc recorder. You get superb digital-to-digital transfers of music from CD!

**DIRECT RADIATING SUPERWOOFER (DSW)** Uses a second 7-inch drive unit specializing in the lowest frequencies. The results are high sound pressure levels and deep, powerful bass from a slim speaker cabinet.

**DOLBY B NOISE REDUCTION** The classic cassette deck technology that lowers tape "hiss." Dolby B noise reduction helped establish the cassette as a music carrier.

**DOLBY PRO LOGIC SURROUND SOUND** This system brings home the excitement and emotional impact of movie sound tracks. The LBT-LX90AV decodes and amplifies the surround channels already encoded in many movie videocassettes, TV dramas and sports broadcasts. The system also includes Center and Surround speakers for a complete surround sound experience.

**DOLBY DIGITAL READY** 5.1-channel inputs enable you to connect a DVD Player with built-in processing. So you can enjoy the benefits of this amazing new technology.

**DUAL AUTO REVERSE DECKS** Play both sides of two cassettes automatically with minimal interruption.

**ELECTRONIC EQUALIZER** Bass and treble controls make tonal adjustments over wide frequency bands. Electronic equalizers operate over more precise bands for corrections that are more selective.

**EQUALIZER PRESETS** Sony engineers have pre-assigned tonal adjustments for up to 10 musical genres and performance types. And you can create 5 presets of your own.

**FREQUENCY SYNTHESIS** System that tunes AM/FM stations with maximum accuracy, minimum drift. Always tunes to the center of the broadcast channel for minimum distortion.

**FRONT A/V INPUTS** Now it's easy to connect your camcorder or video game.

**FULL LOGIC CASSETTE CONTROLS** Full logic lets you go directly between modes, for example, from Fast-Forward to Rewind, without first pressing Play. Feather-touch controls respond to even slight finger contact.

**GROOVE** A preamplifier effect that gives your music incredible bass.

**GUITAR MIX** Enables you to plug in an electric guitar and play along with the music. Level control dials in just the right mix.

**HEADPHONE OUTPUT** For private listening.

**HIGH-SPEED DUBBING** Makes editing of tapes fast and easy. Helps you create tapes for car and portable playback. Choose high-speed dubbing for the greatest convenience or normal-speed dubbing for higher fidelity.

**HORN TWEETER** Achieves high output to match the Direct Radiating Superwoofer. Uses the same driver design as rock concert speakers.

**JOG DIAL** For easy, split-second access to CD tracks and discs. Selection is quick and accurate.

**KARAOKE SING-ALONG** Another way to have fun. The "vocal reduction circuit" lowers recorded voices so you can sing along with just the instruments.

**LOOP AND FLASH SOUND EFFECTS** Be your own hip-hop DJ and create your own "scratch" effects with Compact Discs. These effects add a new dimension of creativity and fun.

**MICROPHONE INPUT** With level control, for use in Karaoke sing-along.

**ONE-TOUCH PLAY** Feature that commences CD or Tape playback as soon as you select the corresponding amplifier function button.

**OVERSAMPLING** A CD player digital filter method that combines excellent phase linearity with superb suppression of aliasing noise. Yields better stereo imaging.

**PROGRAMMING** Plays up to 32 songs (or entire discs) in any sequence you choose.

**PULSE-TYPE DIGITAL-TO-ANALOG CONVERTER** Minimizes zero-cross distortion, considered by researchers to be the most audible distortion in CD players. The result is remarkably smooth, open sound – even during delicate quiet passages.

**RECORD TIMER** Records your favorite broadcasts, even when you're asleep or away.

**REMOTE COMMANDER UNIT** Wireless remote control.

**SLEEP TIMER** Enables you to fall asleep to music.

**SPECTRUM ANALYZER** A graphic display of the tonal content of your music, from the deepest bass (extreme left) to the highest treble (extreme right). The spectrum analyzer helps you adjust and gauge the effect of the equalizer.

**STEREO/MONO SWITCH** Lets you choose mono for low-noise enjoyment of distant stereo stations.

**SUPERWOOFER MODE** Enables you to optimize the Direct Radiating Superwoofer (DSW) for music or movies.

**TIME EDIT** System that fits CD selections to a specified amount of time and makes recording from CD a snap.

**VARIABLE ATTENUATION CONTROL SYSTEM (VACS)** Circuit that keeps the sound clean, even when it gets loud. VACS prevents amplifier "clipping" and its consequent distortion.

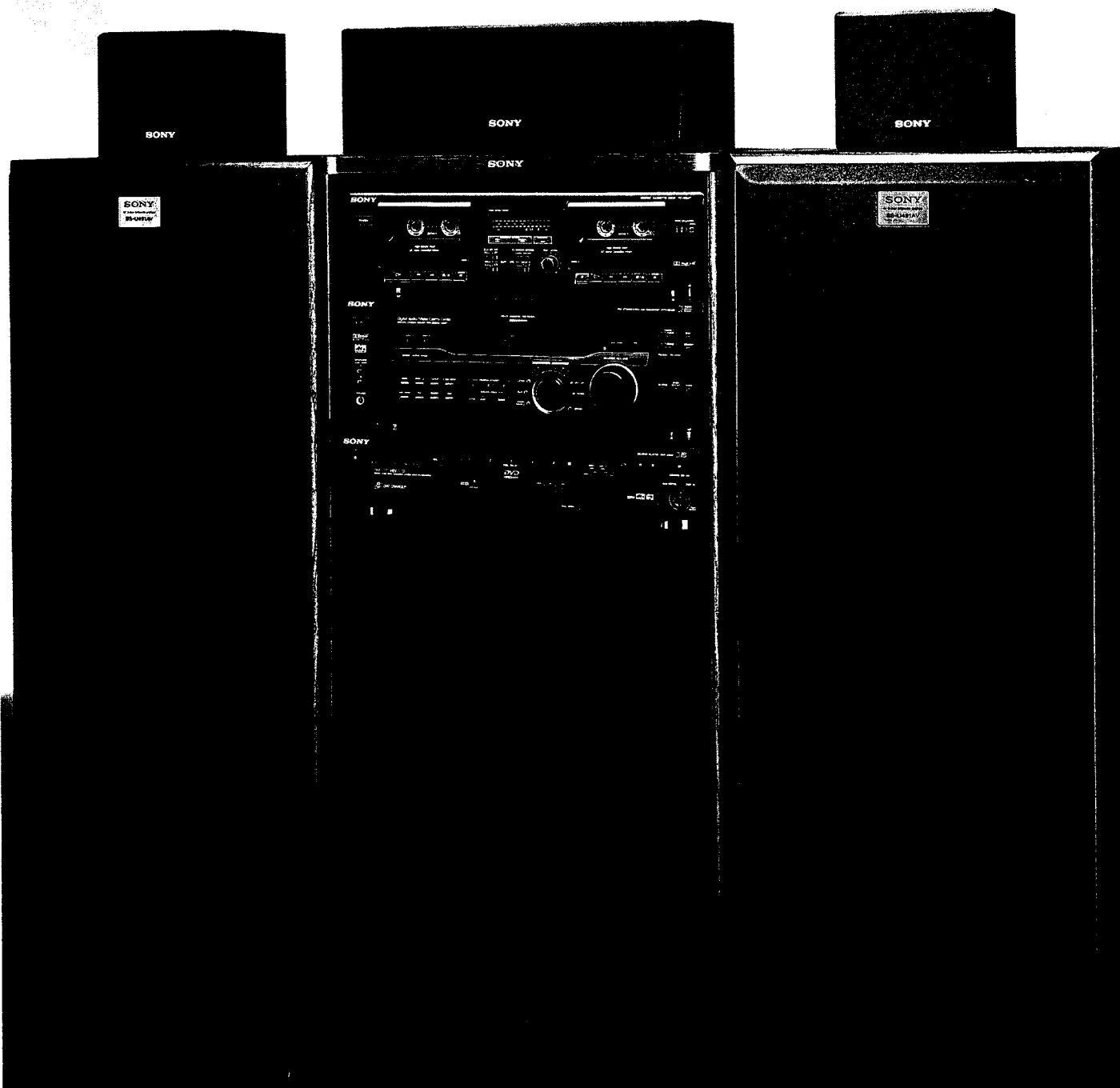
	LBT-LX90AV	LBT-LX50		LBT-LX90AV	LBT-LX50
<b>RECEIVER</b>			<b>CASSETTE DECK</b>		
Power Output In Stereo Mode (120-10,000 Hz, 6 ohms, 10% THD)	110 w x 2	140 w x 2	Type	Double Auto Reverse	Double Auto Reverse
In Surround Mode (1 kHz, 8 ohms, 10% THD)	110 w x 2 + 45 w x 3	—	Operation	Full Logic Feather Touch	Full Logic Feather Touch
Function	CD, Tuner Tape, Phono, MD, Video 1, Video 2 DVD (5.1-ch)	CD, Tuner Tape, Phono, MD, Video 1, Video 2	Dolby Noise Reduction	B	B
One Touch Play	Yes	Yes	High Speed Dubbing	Yes	Yes
A/V Inputs	2 (Front/Rear)	2 (Front/Rear)	Automatic Music Search (AMS)	Yes	Yes
Video Out	1	1	CD Synchro Record	Yes (No Fade)	Yes (No Fade)
Audio Line In/Out	3 (Phono/MD/5.1-ch)/ 2 (MD, Subwoofer Out)	2 (Phono/MD)/1 (MD)	Tape Selector	Auto Type I, II	Auto Type I, II
Equalizer type	5 Legato	5 Legato	<b>SPEAKER SYSTEM</b>		
Preset Memory	Select 10	Select 10	Main Speakers	3 way with DSW Superwoofer	3 way with DSW Superwoofer
Personal File Preset	5	5	Superwoofer Size	7"	7"
Spectrum Analyzer	12-band	12-band	Woofer Size	7"	7"
Groove	Yes	Yes	Tweeter Type	Horn	Horn
VACS	Yes	Yes	Center/ Rear Speakers	Yes	—
Sync Bass	Yes	Yes	Magnetic Shielding	Yes	—
Sync EQ	Yes	Yes	<b>SPECIFICATIONS</b>		
Extra-Large Fluorescent Display	Yes	Yes	FM Sensitivity		
Super Woofer mode	Music/Movie	Music/Movie	Mono, 26 dB S/N Ratio	9.3 dBf	9.3 dBf
Dolby Pro Logic Decoder	Yes	—	Stereo, 46 dB S/N Ratio	17.8 dBf	17.8 dBf
Dolby Digital Ready 5.1-channel Inputs	Yes	—	FM S/N Ratio, Mono/Stereo	71 dB/65 dB	71 dB/65 dB
Surround	DSP	On/Off	FM Selectivity at 400 kHz	65 dB	65 dB
Microphone Mix input with volume	1	1	Cassette Wow & Flutter (WRMS)	0.10%	0.10%
Guitar Mix input with level	1	1	Cassette Frequency Response, Type I, ±3 dB, Dolby NR off	40 – 13,000 Hz	40 – 13,000 Hz
Guitar Mix/Karaoke	Yes	Yes	Cassette S/N Ratio, Dolby NR off, Type I	52 dB	52 dB
Multiplex	Yes	Yes	CD Harmonic Distortion	<0.05%	<0.05%
Auto Function	Yes	Yes	CD Signal-to-Noise Ratio	>90 dB	>90 dB
Remote Control	Full A/V (with keys for Sony TV)	Full	CD Dynamic Range	>90 dB	>90 dB
Remote CD Loop/Flash	Yes	Yes	Main Speaker Frequency Response	40 – 20,000 Hz	40 – 20,000 Hz
<b>TUNER</b>			Main Speaker Impedance	6 ohms	6 ohms
Type	Quartz PLL Synthesized	Quartz PLL Synthesized	Main Unit Dimensions (W x H x D)	14 x 16-5/8 x 17-5/8" (356 x 423 x 446 mm)	14 x 16-5/8 x 17-5/8" (356 x 423 x 446 mm)
Band	FM/AM	FM/AM	Main Unit Weight	31 lbs, 11 oz (10 kg)	29 lbs, 11 oz (10 kg)
Presets	20/10	20/10	Main Speaker Dimensions, each	10-1/8 x 20-7/8 x 12-7/8" (255 x 530 x 325 mm)	10-1/8 x 20-7/8 x 12-7/8" (255 x 530 x 325 mm)
Auto Tuning	Yes	Yes	Main Speaker Weight, each	22 lbs	22 lbs, 13 oz
Stereo/Mono Switch	Yes	Yes	Center Speaker Dimensions (W x H x D)	14-1/4 x 5-1/8 x 6-3/4" (360 x 130 x 170mm)	—
Timer: Daily/Record/Sleep	Yes	Yes	Center Speaker Weight	41 lbs, 8 oz (2.5 kg)	—
<b>CD PLAYER</b>			Rear Speaker Dimensions (W x H x D)	7-1/8 x 5-1/8 x 6-3/4" (180 x 130 x 170mm)	—
Type	Direct Loading 5CD	Direct Loading 5CD	Rear Speaker Weight	3 lbs, 5 oz (1.5 kg)	—
D/A Converter	1-Bit D/A	1-Bit D/A	<b>FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE</b>		
Digital Filter	8fs	8fs			
Digital Servo	Yes	Yes			
Digital Out	Yes	Yes			
CD Jog Shuttle	Yes	Yes	<b>SONY®</b>		
Exchange	1 disc change	1 disc change			
Disc Direct Key	Yes	Yes			
Time Edit	Yes	Yes			
Shuffle/Program/ Continuous Play Modes	Yes	Yes	Sony Electronics Inc. 1 Sony Drive, Park Ridge, NJ 07656 <a href="http://www.sony.com/midi">http://www.sony.com/midi</a>		
Loop/Flash	Yes	Yes			
Non Stop Play	Yes	Yes			
CD Text Display	Yes	Yes			

\* MiniDisc products sold by manufacturer-authorized outlets incorporate the Serial Copy Management System, which will not prevent you from making a direct digital-to-digital copy from a digital source, but from such copies will prevent a second direct digital-to-digital copy from being made.

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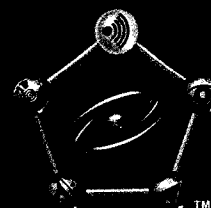
SONY



2000 HOME AUDIO

## Full-Size A/V Systems

*The performance is about to begin*



SONY HOME ENTERTAINMENT UNIVERSE

SURROUND YOURSELF  
IN HOME  
ENTERTAINMENT

Sony engineers just went shopping for you. And they picked out the latest in home entertainment. Presenting Sony full-size A/V systems. Three of these systems will delight you with DVD Players from the company that helped launch DVD technology. You'll bask in Dolby Digital™ sound, emanating from six individual speakers. You'll admire a handsome equipment cabinet. And you'll enjoy a single remote that runs the whole show!

#### AUDIO/VIDEO ENTERTAINMENT MADE EASY

Sony full-size A/V systems are excellent choices for people who want high-performance home entertainment – but who don't want the hassle of mixing and matching components. Just add your television – and your A/V system will be complete.

**COMPLETE DVD SOLUTIONS** Sony contributed key technologies to the invention of DVD. And Sony is the leader in DVD players. So it was only natural that we included a Sony DVD player in three of these systems. The R-7000 goes even further, with a 5-disc DVD changer! With DVD, you'll notice a breakthrough in video performance, with more than twice the picture detail of VHS. Not to mention better color, CD-quality sound, greater convenience and a host of operating features VHS has never dreamed of. And when you're done watching movies, why not listen to some music? Sony DVD players will also play your Compact Discs!

**DOLBY DIGITAL DECODING** DVD offers the very latest in surround sound: Dolby Digital sound tracks. The Dolby Digital process is fundamentally unlike anything that's come before. This is complete digital sound. With full separation between all channels. And full sound quality in the separate Left-Surround and Right-Surround channels. Finally, the Dolby Digital process provides a ".1" channel just for Low-Frequency Effects (LFE).

To make this sound come alive, every Sony full-size A/V system includes Front, Center and Surround loudspeakers, with the amplifier

power to back them up. And the three systems with a DVD player include full Dolby Digital decoding. Listen to Dolby Digital surround sound on a Sony system and home entertainment comes alive. Movie sound tracks are more dynamic. Surround sound effects are bigger and more convincing. Bass is stronger and closer to the movie director's original intent. It's a new world of home entertainment. And nobody takes you there like Sony.

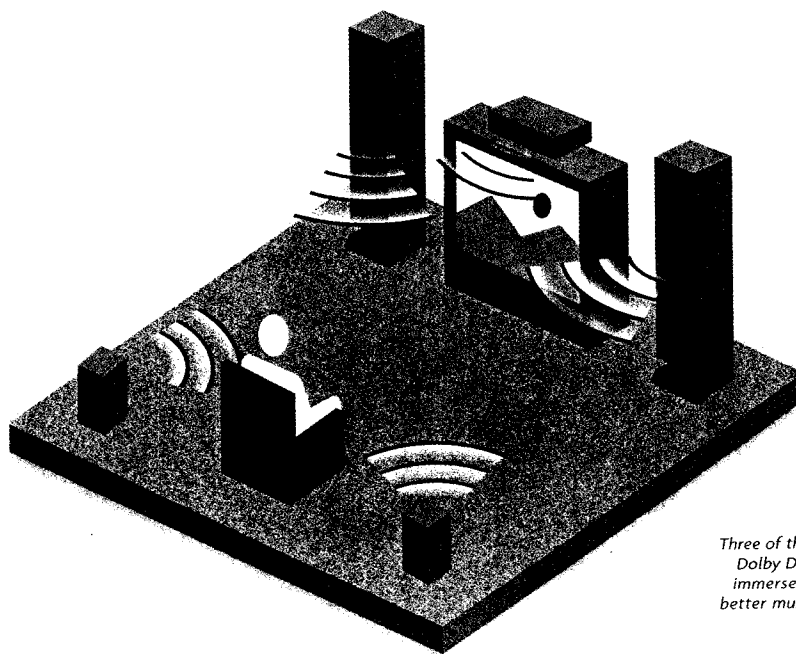
**DVP-C660**  
Action-adventures. Dramas. Musicals.  
The finest Hollywood has to offer.  
There are already more than 5,000 DVD  
movies and concert video titles available.  
And video stores all over the country  
are renting DVDs.



These full-size A/V systems are key components of the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!

SONY HOME ENTERTAINMENT UNIVERSE





*Three of these systems incorporate Dolby Digital decoders. You'll be immersed in greater separation, better musical dynamics and true rear-channel stereo.*

#### **DOLBY DIGITAL "READY" 5.1-CHANNEL INPUTS**

The entry-level R-2900 system offers Dolby Digital "Ready" 5.1-channel inputs. So you can connect a DVD player that has its own Dolby Digital decoder. DVD players that qualify nicely include the Sony DVP-C670D, C600D, S570D, S560D, S550D and S530D. Dolby Digital is an amazing entertainment experience. And the Sony R-2900 helps bring that experience home.

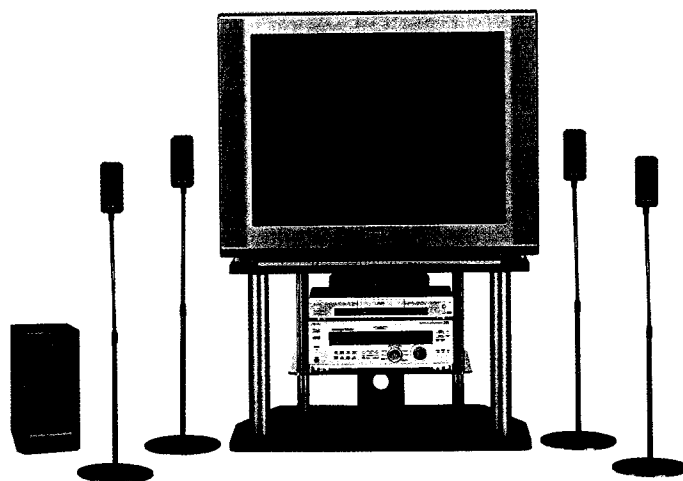
#### **S-VIDEO AND COMPONENT VIDEO OUTPUTS**

Sony's supplied DVD players maintain superb picture quality in connections to compatible televisions. The latest component video connections (Y/P<sub>B</sub>/P<sub>R</sub>) and S-Video connections preserve high resolution and pure colors while they reduce distortions like "dot crawl."

**COMPLETE 5-SPEAKER SYSTEM** Sony complements Dolby Digital surround sound with a complete surround speaker package. It includes magnetically shielded Left, Right and Center Speakers, plus compact Surround Speakers. As a result, every system brings home the full impact, drama and excitement of your video sound tracks. The DAV-L8000 system offers even more: an impressive subwoofer with 50 watts of power (8 ohms, 20 – 150 Hz, 0.8% THD).

**5-DISC CD AND DVD CHANGERS** The R-2900 system features a 5-disc CD changer. The R-7000 includes a 5-disc DVD/CD changer. Both components multiply your entertainment options. You'll have an assortment of discs at your beck and call. Play ExChange lets you change four discs while the fifth one plays. Disc Check quickly rotates all five discs into view. Play modes, repeat modes and 32-step programming give you total control over your music.

**NOT JUST THE LOOK OF PERFORMANCE, THE SUBSTANCE** Many rack systems put up a false front. What appear to be separate components is often just a single box. Sony has chosen the high-end route, with truly separate A/V receivers, CD changers, cassette decks and DVD players. You get the performance of separately purchased high fidelity components, because each has its own chassis. Its own power supply. And its own, carefully optimized design.

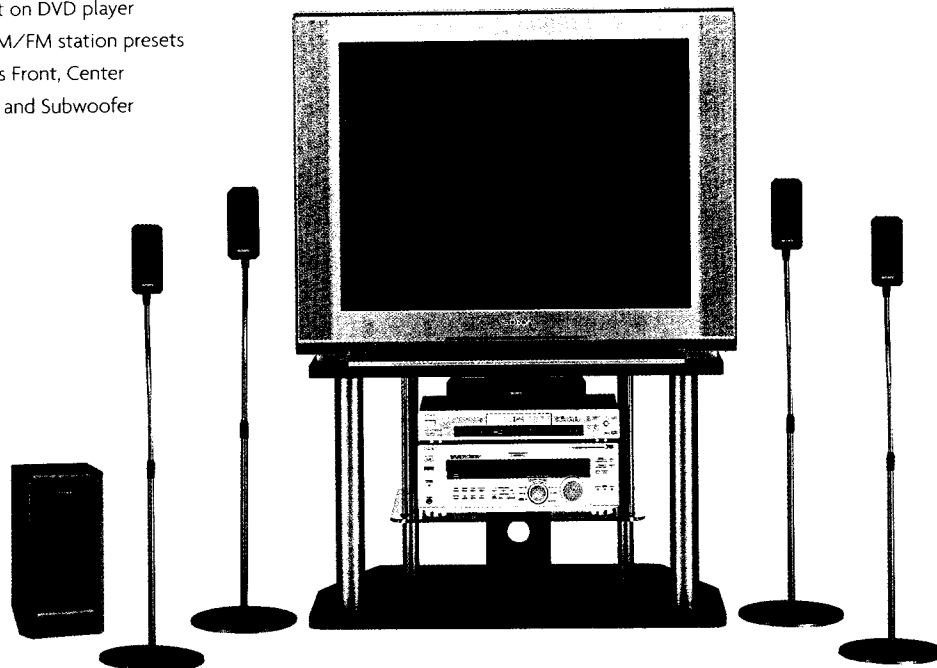


*The speakers of the DAV-L8000 system are sonically matched, for consistent spectral balance in the Front, Center and Surround channels. The supplied subwoofer provides Low Frequency Effects (LFE) for the entire system.*

Shown with WECA® television and speaker stands (not included).

### DAV-L8000 FULL-SIZE A/V SYSTEM

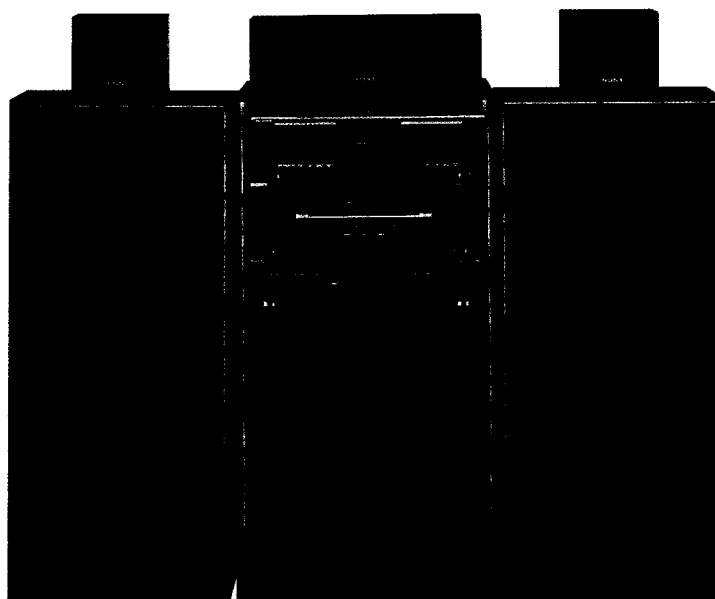
- ▲ 450 watts total system power
- A/V receiver with 80 watts x5, 8 ohms, 1 kHz, 0.7% THD
- ▲ 50 watt powered subwoofer, 8 ohms, 20 – 150 Hz, 0.8% THD
- DVD/CD player for state-of-the-art audio and video
- Dolby Digital and Dolby® Pro Logic® decoding
- S-Video and component video output on DVD player
- Frequency synthesis tuning with 30 AM/FM station presets
- ▲ Complete six-speaker system: includes Front, Center and Surround micro satellite speakers and Subwoofer
- Audio/Video unified remote control with glow-in-the-dark keys
- ▲ Stylish TV stand-cabinet



Shown with WE DA television and speaker stands (not included)

### R-7000 FULL-SIZE A/V SYSTEM

- 400 watts total system power (80 watts x5, 8 ohms, 1 kHz, 0.7% THD)
- ▲ A/V receiver with Dolby Digital and Dolby Pro Logic decoding
- ▲ 5-Disc DVD/CD changer for state-of-the-art audio and video
- S-Video and component video output on DVD changer
- Frequency synthesis tuning with 30 AM/FM station presets
- Dual cassette deck with high-speed dubbing and Dolby B NR
- Three independent electronic components
- Complete five-speaker system: Front, Center and Surround
- ▲ 3-Way floor-standing front speakers with 12-inch woofers
- Audio/Video unified remote control with glow-in-the-dark keys
- ▲ 36-1/2" Vertical equipment cabinet



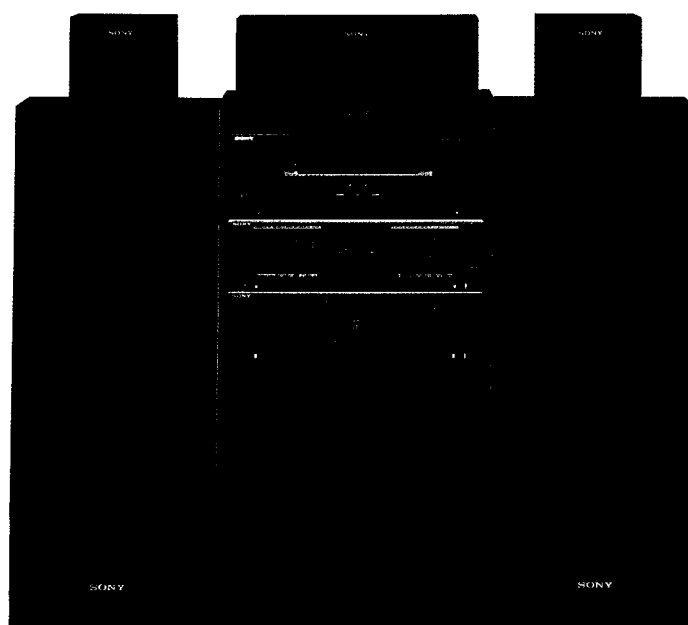
### R-6000 FULL-SIZE A/V SYSTEM

- 400 watts total system power (80 watts x5, 8 ohms, 1 kHz, 0.7% THD)
- A/V receiver Dolby Pro Logic decoding and 5.1-channel inputs
- ▲ DVD/CD player with built-in Dolby Digital processor
- ▲ S-Video and component video output on DVD player
- Dual cassette deck with high-speed dubbing and Dolby B NR
- Frequency synthesis tuning with 30 AM/FM station presets
- Three independent electronic components
- Complete five-speaker system: Front, Center and Surround
- 2-Way floor-standing front speakers with 10-inch woofers
- Audio/Video unified remote control with glow-in-the-dark keys
- 34-1/2" Vertical equipment cabinet



### R-2900 FULL-SIZE A/V SYSTEM

- 400 watts total system power (80 watts x5, 8 ohms, 1 kHz, 0.8% THD)
- Stereo mode power: 100 watts x2 (8 ohms 40 – 20 kHz, 0.5% THD)
- A/V receiver with Dolby Digital Ready 5.1-channel inputs
- Dolby Pro Logic decoding
- 5-CD carousel changer
- Three independent electronic components
- Complete five-speaker system: Front, Center and Surround
- Frequency synthesis tuning with 30 AM/FM station presets
- Dual cassette deck with high-speed dubbing and Dolby B NR
- 2-Way floor-standing front speakers with 10-inch woofers
- Audio/Video unified remote control with glow-in-the-dark keys
- 34-1/2" Vertical equipment cabinet



**30 RANDOM STATION PRESETS** For fast access to your favorite stations. Enable you to choose FM and AM in any combination.

**5-DISC CAROUSEL CD OR DVD/CD CHANGER** This system is sleek and easy to use, providing quick access between discs.

**5-SPEAKER SYSTEM** Every Sony full-size A/V system includes Left, Right, Center, Left-Surround and Right-Surround speakers for complete Dolby Pro Logic® playback.

**6-SPEAKER SYSTEM** Like the other Sony systems, the DAV-L8000 includes Left, Right, Center, Left-Surround and Right-Surround speakers. It adds a sixth speaker, a Subwoofer, to reproduce the Dolby Digital Low Frequency Effects (LFE).

**CD PLAY MODES** Fast, flexible options include Continue Play (to play discs straight through), Shuffle Play (to play familiar CDs in an unfamiliar track sequence), and Program Play (to let you create your own customized running order of CD tracks).

**CD REPEAT MODES** You can repeat a track or the entire disc, for continuous music of your choice.

**COMPONENT VIDEO OUTPUTS** On DVD players, separate Y/PB/PR outputs work with the latest televisions to deliver the highest picture quality, with maximum resolution, color fidelity and clarity.

**DETACHABLE GRILLES** The front speakers of the R-6000 let you choose the speaker "look" you want – formal with grilles on or high-tech with grilles off.

**DIGITAL SERVO CONTROL** A CD player circuit that maintains precise tracking, laser focus and disc rotation. Digital Servo Control lowers radiated noise, especially important near the sensitive, low-level RF signals of CD playback.

**DIGITAL SIGNAL PROCESSING (DSP)** Circuit that reproduces sound in the appropriate setting: movies in a Theater, classical music in a Hall, for example.

**DOLBY B NOISE REDUCTION** The classic cassette deck technology that lowers tape "hiss." Dolby B noise reduction helped establish the cassette as a music carrier.

**DOLBY DIGITAL DECODING** DVD discs. Selected Digital Satellite System programs. The new DTV broadcasts. They all feature Dolby Digital surround sound. Three of these systems offer complete, on-board decoding. You'll hear greater dynamics, better separation and high-impact bass.

**DOLBY DIGITAL READY 5.1-CHANNEL INPUTS** Every system also includes inputs for a source component that has its own Dolby Digital decoder.

#### **DOLBY PRO LOGIC SURROUND SOUND**

This process brings home the excitement and emotional impact of movie sound tracks. Decodes and amplifies the surround channels already encoded in many movie videocassettes, TV dramas and sports broadcasts.

#### **DTS® (DIGITAL THEATER SYSTEM) DECODING**

Enables digital surround sound that is dynamic, spacious and realistic. Generates 5.1 separate channels of line-level sound for Left, Right, Center, Left Surround, Right Surround and Subwoofer.

**CD TEXT™ AND DVD TEXT DISPLAY** Shows disc title, track name and other information encoded on compatible discs.

**DVD PLAYER** Perhaps the most exciting addition you can make to your video system. Offers studio-quality digital pictures, CD quality digital sound and plays your choice of over 5,000 movies and concert videos. DVD is also a principal reason to buy a Sony home theater package.

**FREQUENCY SYNTHESIS** System that tunes AM/FM stations with maximum accuracy, minimum drift. Always tunes to the center of the broadcast channel for minimum distortion.

**GLOW KEY REMOTE** Lets you tune channels, adjust volume and more – without turning on lights. During the day, the phosphorescent keys absorb energy from ambient light. At night, the keys glow.

#### **HALL AND SIMULATED SURROUND**

DSP amplifier modes that enlarge the sound of any source.

**HEADPHONE OUTPUT** For private listening.

**HIGH-SPEED DUBBING** Makes editing of tapes fast and easy. Helps you create tapes for car and portable playback. Choose high-speed dubbing for the greatest convenience or normal-speed dubbing for higher fidelity.

**HYBRID PULSE D/A CONVERTER** Sony's hybrid design places the digital-to-analog converter and digital filter on single integrated circuit. The pulse converter minimizes zero-cross distortion, considered by researchers to be the most audible distortion in CD players. The result is remarkably smooth, open sound – even during delicate quiet passages.

**MAGNETIC SHIELDING** Loudspeakers incorporate magnets that can distort your TV picture, causing images to bend and colors to bleed. Sony Front and Center speakers cancel out magnetic fields for minimum interference.

**OVERSAMPLING** A CD player digital filter method that combines excellent phase linearity with superb suppression of aliasing noise. Yields better stereo imaging.

**PLAY EXCHANGE** A feature in 5-disc carousel changers, this lets you change four discs, even while the fifth one plays.

**PROGRAMMING** Plays up to 32 songs in any sequence you choose.

**SCREEN SAVER** This DVD feature switches on when the disc is in the Pause mode too long. It helps prevent the DVD image from "burning in" your television screen.

**SMOOTHSCAN™ AND SMOOTHSLOW SPECIAL EFFECTS** Some DVD players present an awkward, jerky picture in special effects modes. Sony SmoothScan and SmoothSlow modes overcome this with powerful digital video processing.

#### **SURROUND AND CENTER LEVEL CONTROLS**

Adjust the surround sound effect to match your room acoustics.

**S-VIDEO OUTPUTS** On DVD players, a high-quality connection that keeps chrominance (C) separate from luminance (Y) for high resolution, clearer colors and reduced "dot crawl."

**TIME EDIT** System that fits CD selections to a specified amount of time. Makes recording from the CD a snap.

**UNIFIED REMOTE CONTROL** Wireless remote control not just for the audio system, but also for Sony TVs, VCRs and DVD players.

**VIRTUAL ENHANCED SURROUND** Together with Virtual Semi Multi-Dimension, Digital Signal Processing modes in DVD players help make home surround speakers sound even more like the surround speakers in the movie theater.

SYSTEM	DAV-L8000	R-7000	R-6000	R-2900
Source components	Receiver, DVD player	Receiver, DVD changer, cassette deck	Receiver, DVD player, cassette deck	Receiver, CD changer, cassette deck
Supplied speakers	6 (L/R Front, Center, L/R Rear, Subwoofer)	5 (L/R Front, Center, L/R Rear)	5 (L/R Front, Center, L/R Rear)	5 (L/R Front, Center, L/R Rear)
Power supply	Separate	Separate	Separate	Separate
<b>RECEIVER</b>	<b>STR-DE445/S</b>	<b>STR-DE445</b>	<b>STR-SE391</b>	<b>STR-SE391</b>
Power output, stereo	80 w x 2 into 8 ohms, 20-20 kHz, 0.09% THD	80 w x 2 into 8 ohms, 20-20 kHz, 0.09% THD	100 w x 2 into 8 ohms, 40-20 kHz, 0.5% THD	100 w x 2 into 8 ohms, 40-20 kHz, 0.5% THD
Power output, surround mode, into 8 ohms, 1 kHz	80 w x 5, 0.7% THD	80 w x 5, 0.7% THD	80 w x 5, 0.8% THD	80 w x 5, 0.8% THD
Discrete output transistors	Yes	Yes	Yes	Yes
Rear stereo	Yes	Yes	Yes	Yes
Headphone jack	Yes	Yes	Yes	Yes
Audio inputs/outputs	6/2	6/2	5/2	5/2
Video inputs/output	3/1	3/1	-/-	-/-
Monitor output	1	1	-	-
Dolby Digital decoding	Yes	Yes	Ready	Ready
5.1-Channel Input for Dolby Digital decoder	Yes	Yes	Yes	Yes
Dolby Pro Logic decoding	Yes	Yes	Yes	Yes
Soundfield	11 environments	11 environments	Yes	Yes
Digital Signal Processing (DSP)	24-bit	24-bit	Yes	Yes
Mix output	Yes	Yes	Yes	Yes
Tuner station presets	30 Station	30 Station	30 Station	30 Station
<b>DOUBLE TAPE DECK</b>	-	<b>TC-WE471</b>	<b>TC-WE471</b>	<b>TC-WE471</b>
Noise reduction	-	Dolby B	Dolby B	Dolby B
High speed dubbing	-	Yes	Yes	Yes
<b>DVD/CD PLAYER</b>	<b>DVP-S363</b>	<b>DVP-C660</b>	<b>DVP-S560D</b>	-
Capacity	1 DVD	5 DVD	1 DVD	-
Video D/A converter	10bit	10bit	10bit	-
Audio D/A converter	96kHz / 24bit	96kHz / 24bit	96kHz / 24bit	-
Advanced SmoothScan system	Yes	Yes	Yes	-
Virtual Semi Multi-Dimension	Yes	Yes	Yes	-
Virtual Enhanced Surround A, B	Yes	Yes	Yes	-
Dolby Digital decoding	Passthrough	Passthrough	Built-in	-
dts Decoding	Passthrough	Passthrough	Passthrough	-
DVD Text	Yes/Yes	Yes/Yes	Yes/Yes	-
Component video outputs (Y/P <sub>b</sub> /P <sub>r</sub> )	Yes	Yes	Yes	-
S-Video outputs	Two	Two	Two	-
<b>CD PLAYER</b>	<b>IN DVP-S363</b>	<b>IN DVP-C660</b>	<b>IN DVP-S560D</b>	<b>CDP-C591</b>
Capacity	1 CD	5 CD	1 CD	5 CD
Play ExChange	-	Yes	-	Yes
D/A converter	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse
Numeric key	10 Key	10 Key	10 Key	10 Key
CD TEXT™ display	Yes	Yes	Yes	Yes
<b>MAIN SPEAKERS</b>	<b>SS-V230</b>	<b>SS-U491AV</b>	<b>SS-U281AV</b>	<b>SS-U281AV</b>
Color/finish	Grey	Black Ash	Black Ash	Black Ash
Tweeter	-	2" Balanced Drive (5 cm)	-	-
Midrange	-	4" (10 cm)	3" (8 cm)	3" (8 cm)
Woofer	2 x 3-1/2" (5 x 9 cm)	12" (30 cm)	10" (25 cm)	10" (25 cm)
Magnetically Shielded	Yes	Yes	Yes	Yes
<b>CENTER SPEAKER</b>	<b>SS-CN230</b>	<b>SS-CT302</b>	<b>SS-CT302</b>	<b>SS-CT301</b>
Size	2 x 3-1/2" x 2 (5 x 9 cm x2)	5" x 2 (12 cm x2)	5" x 2 (12 cm x2)	5" (12 cm)
Finish	Grey	Black	Black	Black
<b>REAR SPEAKERS</b>	<b>SS-V230</b>	<b>SS-RS302</b>	<b>SS-RS302</b>	<b>SS-RS301</b>
Size	2 x 3-1/2" (5 x 9 cm)	5" (12 cm)	5" (12 cm)	4" (10 cm)
Finish	Grey	Black	Black	Black
<b>SUBWOOFER</b>	<b>SA-WMS230</b>	-	-	-
Driver Type	6-1/4" (16 cm)	-	-	-
Power Output into 8 ohms, 20-150 Hz, 0.8% THD	50 watts	-	-	-
<b>EQUIPMENT CABINET</b>	<b>SU-L8000</b>	<b>SU-S4910</b>	<b>SU-S2910</b>	<b>SU-S2910</b>
Cabinet Type	TV Stand-Cabinet	Box type	Box type	Box type
Color/Finish	Grey/Silver	Black Ash	Black Ash	Black Ash
<b>SPECIFICATIONS</b>	<b>DAV-L8000</b>	<b>R-7000</b>	<b>R-6000</b>	<b>R-2900</b>
Cassette Wow & Flutter (WRMS)	-	0.15%	0.15%	0.15%
Cassette Frequency Response Type II, ±3 dB, Dolby NR off	-	30 Hz - 15,000 Hz	30 Hz - 15,000 Hz	30 Hz - 15,000 Hz
Cassette S/N Ratio, Type IV, Dolby NR off	-	58 dB	58 dB	58 dB
CD Harmonic Distortion	0.002%	0.002%	0.002%	0.0045%
CD Dynamic Range	97 dB	97 dB	97 dB	98 dB
Main Speaker Frequency Response	N/A	45 - 20,000 Hz	50 - 20,000 Hz	50 - 20,000 Hz
Cabinet Dimensions (W x H x D)	N/A	22-7/8 x 36-1/2 x 15-5/8" (476 x 875 x 395 mm)	18-3/4 x 34-1/2 x 15-5/8" (580 x 925 x 394 mm)	18-3/4 x 34-1/2 x 15-5/8" (476 x 875 x 395 mm)
Cabinet Weight (not including components)	N/A	40 lbs (18.3 kg)	41 lbs (18.6 kg)	41 lbs (18.6 kg)
Main Speaker Dimensions, each (W x H x D)	2-3/4 x 6 x 5" (70 x 150 x 125 mm)	16-1/8 x 36-1/2 x 10-3/4" (410 x 925 x 274 mm)	13-1/4 x 34-1/2 x 8-7/8" (335 x 875 x 225 mm)	13-1/4 x 34-1/2 x 8-7/8" (335 x 875 x 225 mm)
Main Speaker Weight, each	1 lb, 12 oz (0.8 kg)	33 lbs (15 kg)	24 lbs (11 kg)	24 lbs (11 kg)

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SPECIFICATIONS SUBJECT  
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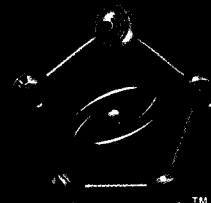
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2000 HOME AUDIO

## Compact Disc Players

*Nobody does CD like Sony*

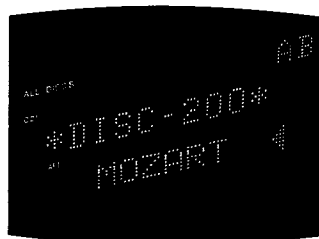


SONY HOME ENTERTAINMENT UNIVERSE

THE BEST IN CD  
FROM THE PEOPLE  
WHO DID CD FIRST

Years ago, Sony introduced the world's first CD player. The first 5-disc changer. And the first MegaStorage® changer. So what have we done for you lately? Presenting Sony's MegaStorage 400-CD changer. It's smart enough to search your music library by album title, slot position or artist name! It's clever enough to show the results on your television screen. And it's just one reason to look for the very latest in Compact Disc from the people who did CD first and foremost. Sony.

**NEVER LOSE ANOTHER CD! MEGASTORAGE 400-CD CHANGERS** Stop fumbling with jewel boxes. Stop searching your shelves. Stop pulling the cushions off your couch, looking for lost CDs. Sony's MegaStorage CD changers are the easiest way to store, index and (of course) play your music collection. Our changers hold 5, 50+1, 200 and 300 Compact Discs, while our 400-CD models hold entire music collections. Still not enough? Consider linking two 400-disc changers with Sony's Advanced MegaStorage Control for up to 800 CDs at a time!

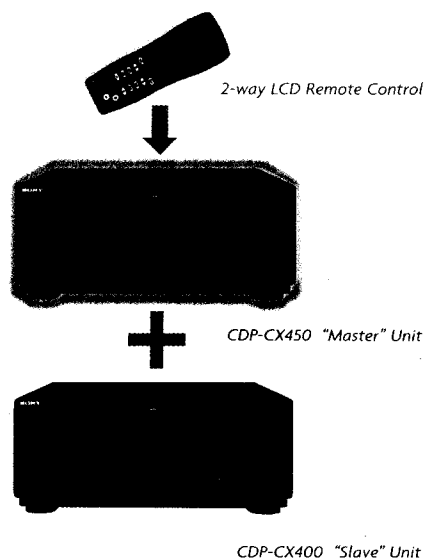


Sony makes it easy to browse your music collection – and see the names of all your CDs in the front panel!

**LET SONY BE YOUR MUSIC LIBRARIAN** With 400 CDs loaded, how do you find the one you're looking for? Three browsing modes let you turn the jog dial to zip through the names of every disc that's loaded. Sony's Memo Search can list all your CDs by title. Memo Scan lists them by loading position. And Sony's new Artist Search feature lists them alphabetically by artist. There's enough memory for 200 different

artists. It's like having your own personal music librarian to find any disc, any time you want it! Each disc is identified by Sony's Custom File™ system, a computer memory that lets you enter a name for up to 800 CDs. And the latest 200, 300 and 400-disc changers automatically recognize the names of CD Text discs. So you're not simply playing "DISC 17" or "DISC 251." You're listening to "AIDA" or "ZYDECO."

**ADVANCED MEGASTORAGE CONTROL: CD CHANGERS THAT GROW** With Advanced MegaStorage Control, you can start with one changer now, then use it to control a compatible Sony MegaStorage changer in the future. You'll get instant access to as many as 800 Compact Discs. You can operate both changers through a single remote control. And both changers connect to a single receiver input. Our Advanced Control models even let you see the second changer's Disc Memo™ names and CD Text™ information on the front panel of the first!



These CD players are key components of the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!

SONY HOME ENTERTAINMENT UNIVERSE



**NO-DELAY PLAY** A pair of changers using Advanced MegaStorage control can perform some cool tricks. No-Delay Play means your track programming can include selections from both CD changers. So the second changer can have a CD cued up, ready to play as soon as the first selection is finished. And Crossfade Play automatically fades down the track from one changer as it fades up the track from the other – just like a professional disk jockey.

**EASY PLAY, EASY EJECT** For loading and removing discs on your 300 or 400-CD changer, nothing beats Easy Eject – Sony's thoughtful motorized eject mechanism. It's a great help when you're removing a disc from the carousel. And when a visitor comes over with an extra CD, don't worry. Easy Play makes it a snap.

**TWO-WAY LCD REMOTE** Now you can hold your entire music collection in the palm of your hand. Sony's LCD Remote Commander® unit puts Disc Memo names and CD Text information right on the remote control. So there's no need to squint at titles across the room.

**SCREENING YOUR TITLES: SONY'S ON-SCREEN DISPLAY** For easy reference, Sony puts disc and artist titles on the front panel display on the LCD remote – and also on your television screen. It's a great benefit when you're using the changer in an A/V system!

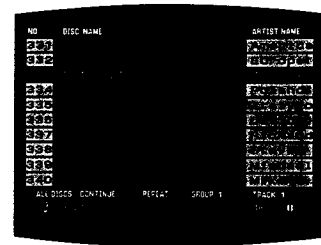


CD Text discs already have the artist, track and disc names encoded on them!

**PC KEYBOARD INPUT** To turbocharge the entry of disc names and track names, Sony lets you connect a standard PC-compatible keyboard to any 300 or 400 CD MegaStorage changer. So you'll have your CD collection named, categorized and filed in no time!

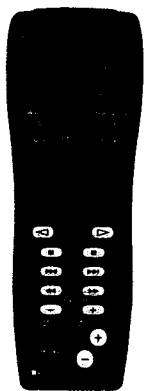
**TEXT INFORMATION: MAKING CD EVEN MORE CONVENIENT** Many of today's CDs are embedded with CD Text information for disc names, artist names and track names. With these discs and a compatible Sony player, the text information automatically pops onto the display. It's slick. It's easy. And it's highly informative.

**HYBRID PULSE D/A CONVERTER** University researchers have identified "zero-cross distortion" as the number one limitation in CD player sound quality. Sony's pulse converter eliminates this distortion altogether. You get smooth, detailed sound even when music is at its most subtle.



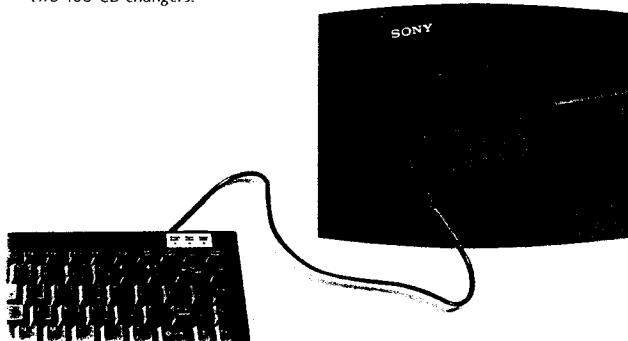
Screen star. Sony puts CD disc and artist information on your television.

**OPTICAL DIGITAL OUTPUT FOR MD AND DTS™ SOUND** It's easier than ever to record your music onto MiniDisc. The optical digital output connects a MiniDisc recorder for pure digital-to-digital compilations of your favorite tracks. And Sony's Control A1 II interface automatically downloads CD Text information to a compatible MD recorder! The digital output also supports the growing number of Compact Discs with dts (Digital Theater System) multi-channel digital surround sound. Connect Sony's new STR-DE945, DE845 and DE545 receivers with built in dts decoding to enjoy the spectacular multi-channel sound of these CDs.

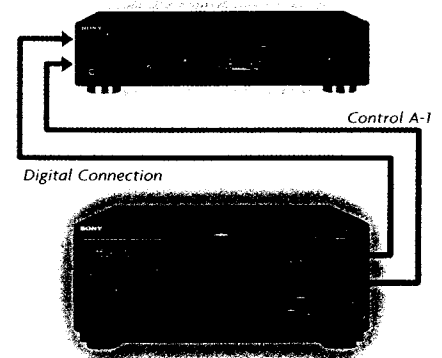


You've got to hand it to Sony. With this 2-way LCD remote, the palm of your hand is the place for the names of all 400 CDs – or 800 CDs when you daisy-chain two 400-CD changers!

Just your type. Sony lets you use a standard PC-compatible keyboard to enter disc names.

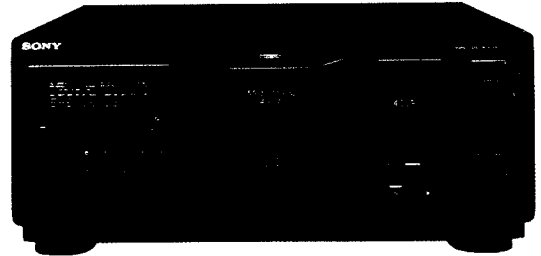


**CDP-CX450 Changer and MDS-JB940 Deck**  
The optical connection enables straight digital-to-digital dubbing from your CDs. And when the CD player and MD recorder both have Sony's Control A1 II interface, any available CD Text information can also be transferred to your MiniDisc!



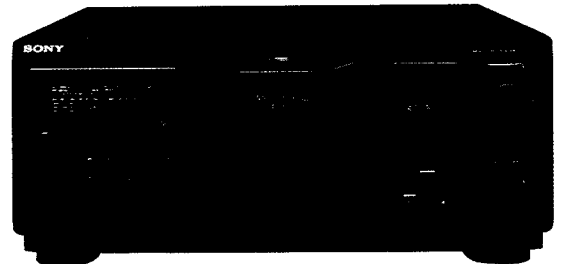
### CDP-CX450 400-DISC MEGASTORAGE CD CHANGER

- ▲ On-screen display puts disc and artist names on your television
- ▲ 2-Way LCD Remote Commander unit puts disc names right in the palm of your hand
- Internal storage for 400 Discs
- Dual fluorescent display with dot matrix 13 character alphanumeric readout
- Artist Name Search for quick and easy access to the CD you want
- Memo Scan by slot position; Memo Search by alphabet
- Advanced MegaStorage Control for a second CD changer
- Second CD changer input
- MegaStorage Crossfade play; No-delay play
- Custom File Disc Memo display shows titles for up to 800 CDs
- Custom File Group File organizes your CDs into eight groups
- CD Text display with compatible CDs
- PC keyboard input for easy text entry
- Hybrid Pulse D/A converter
- Easy Play and Easy Eject simplify handling of 400 CDs
- Twin Jog Dials for disc and track selection
- Timer switch



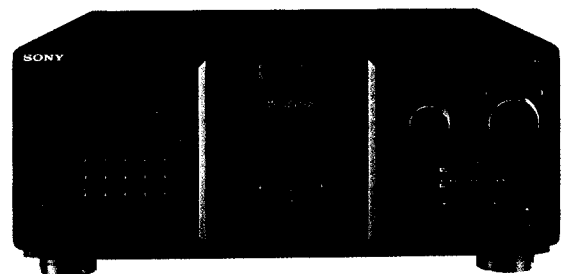
### CDP-CX400 400-DISC MEGASTORAGE CD CHANGER

- ▲ Internal storage for 400 Discs
- ▲ Dual fluorescent display with dot matrix 13 character alphanumeric readout
- ▲ Artist Name Search for quick and easy access to the CD you want
- Memo Scan by slot position; Memo Search by alphabet
- ▲ Custom File Disc Memo display shows titles for up to 800 CDs
- Advanced MegaStorage Control for a second CD changer
- Second CD changer input
- MegaStorage Crossfade play; No-delay play
- Custom File Group File organizes your CDs into eight groups
- CD Text display with compatible CDs
- PC keyboard input for easy text entry
- Hybrid Pulse D/A converter
- Easy Play and Easy Eject simplify handling of 400 CDs
- Twin Jog Dials for disc and track selection
- Timer switch



### CDP-CX335 300-DISC MEGASTORAGE CD CHANGER

- ▲ Internal storage for 300 Discs
- ▲ Advanced MegaStorage Control for a second CD changer
- ▲ Second CD changer input
- ▲ Twin Jog Dials for disc and track selection
- Memo Scan by slot position; Memo Search by alphabet
- ▲ Easy Play and Easy Eject simplify handling of 300 CDs
- ▲ Custom File Disc Memo display shows titles for up to 600 CDs
- ▲ PC keyboard input for easy text entry
- Custom File Group File organizes your CDs into eight groups
- Custom File Delete Bank
- CD Text display with compatible CDs
- Motorized access door
- Hybrid Pulse D/A converter
- Optical digital output
- Timer switch



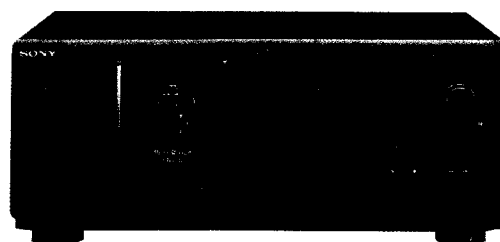
### CDP-CX235 200-DISC MEGASTORAGE CD CHANGER

- ▲ Internal storage for 200 Discs
- ▲ Custom File Disc Memo display shows titles for up to 200 CDs
- ▲ Custom File Delete Bank remembers tracks you'd rather skip
- ▲ Custom File Group File organizes your CDs into eight groups
- ▲ Memo Scan of titles by slot position
- ▲ Memo Search of titles by alphabetical order
- Jog dial for rapid selection of discs
- ▲ CD Text display with compatible CDs
- ▲ Digital Servo Control
- ▲ Motorized access door
- Hybrid Pulse D/A converter
- Optical digital output



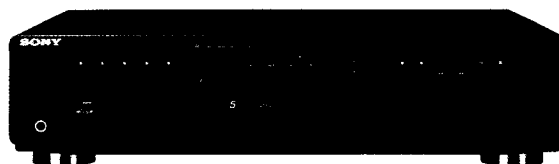
### CDP-CX53 50+1 DISC MEGASTORAGE CD CHANGER

- ▲ Internal storage for 50+1 Discs
- ▲ "Plus One" instant play slot
- ▲ Jog Dial for rapid selection of discs
- ▲ Block File organizes your CDs in 5 areas
- Remote Commander wireless remote control
- Hybrid Pulse D/A converter
- Optical digital output



### CDP-CE545 5-DISC CAROUSEL CHANGER

- Play 1, Exchange 4 capability
- ▲ Advanced MegaStorage Control for a second CD changer
- ▲ Second CD Input
- ▲ MegaStorage Crossfade play; Delete Play
- ▲ Custom File Disc Memo display shows titles for 255 CDs
- ▲ Custom File Delete Bank remembers tracks you'd rather skip
- ▲ CD Text display with compatible CDs
- Hybrid Pulse D/A converter
- Digital Volume control
- Optical digital output
- Anti-resonant off-center insulator feet
- Peak Search
- Time Edit/Program Edit
- Time fade
- 20-track Music Calendar
- ▲ Headphone jack & volume control
- Remote Commander remote control



### CDP-CE345 5-DISC CAROUSEL CHANGER

- ▲ Remote Commander remote control
- ▲ Digital Volume Control
- Play 1, Exchange 4 capability
- Jog Dial Direct Access® track selection
- 20-track Music Calendar
- Peak Search
- Time Edit
- Hybrid Pulse D/A converter
- Digital Servo Control
- Optical digital output
- Anti-resonant off-center insulator feet



	CDP-CX450	CDP-CX400	CDP-CX335	CDP-CX235	CDP-CX53	CDP-CE545	CDP-CE345	CDP-CE245	CDP-XE500	CDP-XE400
Number of Discs	400	400	300	200	50+1	5	5	5	1	1
Hybrid Pulse D/A Converter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Servo Control	Yes	Yes	Yes	Yes	—	Yes	Yes	Yes	Yes	Yes
Line Output (Fixed/Variable)	Fix.	Fix.	Fix.	Fix.	Fix.	Var.	Var.	Fix.	Var.	Fix.
Optical Digital Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—
Headphone Jack	—	—	—	—	—	Yes	—	—	Yes	Yes
Second CD Input	Yes	Yes	Yes	—	Yes	Yes	—	—	—	—
Control A1 II Interface	Yes	Yes	Yes	Yes	A1	Yes	—	—	—	—
Off-Center Insulator Feet	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes

**OPERATING FEATURES**

Play Exchange	—	—	—	—	—	Yes	Yes	Yes	—	—
Disc Select	Jog	Jog	Jog	Jog	Jog	5-key	5-key	5-key	—	—
Track Select	Jog	Jog	Jog	—	—	Jog	Jog	Jog	Jog	Jog
Play Modes	5	5	5	5	4	6	6	5	3	3
Repeat Modes	2	2	2	2	3	2	2	2	2	2
Programming	32 x3	32 x3	32 x3	32	32	32	32	32	24	24

**EDITING FEATURES**

Time & Program Edit	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes
Time Fade	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes

**CUSTOM FILE FEATURES**

Custom File Memory (Discs)	800	800	600	200	—	255	—	—	—	—
Disc Memo Display	Yes	Yes	Yes	Yes	—	Yes	—	—	—	—
Memo Scan	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Memo Search	Yes	Yes	Yes	Yes	—	—	—	—	—	—
Artist Search	Yes	Yes	—	—	—	—	—	—	—	—
Delete Bank	Yes	Yes	Yes	Yes	—	Yes	—	—	—	—
Hit List	32	32	32	—	—	—	—	—	—	—
Group/Block File	8 Gr.	8 Gr.	8 Gr.	8 Gr.	5 Bl.	—	—	—	—	—

**ADDITIONAL FEATURES**

On-Screen Display	Yes	—	—	—	—	—	—	—	—	—
Music Scan (3 Modes)	—	—	—	—	—	On remote	Yes	Yes	Yes	Yes
Peak Search	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes
Timer Switch	Yes	Yes	Yes	—	—	—	—	—	—	—
Cross Fade	Yes	Yes	Yes	—	—	Yes	—	—	—	—
PC Keyboard Input	Yes	Yes	Yes	—	—	—	—	—	—	—
CD Text Display	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—	—
Advanced MegaStorage Control	Yes	Yes	Yes	—	—	Yes	—	—	—	—
Fluorescent Display (Dot Matrix/Segment)	DM	DM	DM	DM	DM	DM	Seg.	Seg.	Seg.	Seg.
Display Characters	Twin 13	Twin 13	13	13	12	12	7	7	6	6
Music Calendar	—	—	—	—	—	20	20	20	20	20
Remote Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Eye only	Yes	Eye only

**SPECIFICATIONS**

Frequency Response										
Hz — Hz	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k	2 — 20 k
tolerance	±0.5 dB	±0.5 dB	±0.5 dB	±0.5 dB	±1 dB	±0.5 dB	±0.5 dB	±0.5 dB	±0.5 dB	±0.5 dB
Harmonic Distortion	0.0045%	0.0045%	0.0045%	0.0045%	0.013%	0.0045%	0.0045%	0.0045%	0.0045%	0.0045%
Signal-to-Noise Ratio	108 dB	108 dB	107 dB	105 dB	100 dB	102 dB	102 dB	102 dB	100 dB	100 dB
Dynamic Range	93 dB	93 dB	93 dB	93 dB	88 dB	93 dB	93 dB	93 dB	98 dB	98 dB
Channel Separation	100 dB	100 dB	100 dB	97 dB	95 dB	100 dB	100 dB	100 dB	95 dB	95 dB
Line Output Voltage	2 V	2 V	2 V	2 V	2 V	2 V	2 V	2 V	2 V	2 V
Line Output Impedance	50 kW	50 kW	50 kW	50 kW	50 kW	50 kW	50 kW	50 kW	50 kW	50 kW
Power Consumption	13 W	13 W	13 W	12 W	12 W	11 W	11 W	11 W	10 W	10 W
Width	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)
Height	7-1/2"	7-1/2"	7-1/2"	7-7/8"	7-1/4"	4-1/8"	4-1/8"	4-1/8"	3-3/4"	3-3/4"
	(189 mm)	(189 mm)	(189 mm)	(200 mm)	(185 mm)	(105 mm)	(105 mm)	(105 mm)	(95 mm)	(95 mm)
Depth	21-1/8"	21-1/8"	19"	19"	12-1/2"	15-3/4"	15-3/4"	15-3/4"	14-1/2"	14-1/2"
	(537 mm)	(537 mm)	(484 mm)	(484 mm)	(320 mm)	(398 mm)	(398 mm)	(398 mm)	(370 mm)	(370 mm)
Weight	19 lbs, 13 oz	19 lbs, 13 oz	18 lbs, 12 oz	20 lbs, 15 oz	11 lbs, 11 oz	11 lbs, 4 oz	11 lbs	11 lbs	6 lbs, 10 oz	6 lbs, 10 oz
	(9 kg)	(9 kg)	(8.5 kg)	(9.5 kg)	(5.3 kg)	(6.4 kg)	(6.3 kg)	(6.2 kg)	(3.0 kg)	(3.0 kg)

**ADVANCED MEGASTORAGE CONTROL**

Enables you to connect two changers and operate them as one. Displays the second changer's Disc Memo information in the front panel of the first. Both front panels continue to be usable, with priority going to the last machine to be placed into Play.

**ARTIST NAME SEARCH** Enables you to find CDs from an alphabetical list of up to 200 artist names! Another way Sony zips through hundreds of CDs to find exactly the disc you want.

**BLOCK FILE** Organizes the carousel of a 50+1 disc MegaStorage changer into five blocks of CDs, identified by letter codes A through E, for easier retrieval.

**CD TEXT DISPLAY** Automatically shows the disc and track names of compatible CDs. In addition, disc names automatically enter Custom File memory – no typing required.

**CONTROL A-1 II** A communications protocol, Control A-1 II allows for commands and data to be transferred among Sony audio components. It also enables automatic transfer of CD Text and Custom File information as you record to a compatible Sony MD recorder.

**CROSSFADE PLAY** A feature of MegaStorage control. Lets you program tracks and discs on both changers and crossfade like a professional DJ between the end of one song and the beginning of another.

**CUSTOM FILE MEMORY** Uses the unique ID number pressed into each CD title's subcode area. Custom File players can remember and display a name for each CD, along with specific instructions on how you prefer to play it.

**DELETE BANK** A Custom File feature you can use when a CD you like includes songs you hate. Use Delete Bank to skip unwanted songs. Can be switched off for playback of complete discs.

**DIGITAL SERVO CONTROL** System that maintains stable tracking, laser focus and disc rotation – all with higher precision and lower radiated noise.

**DIRECT ACCESS TRACK SELECTION** A 10-key system that lets you enter the number of the track you want – and go directly to it.

**DISC MEMO DISPLAY** The Custom File feature that helps you remember which discs you have loaded. Disc Memo display lets you assign an alphanumeric name for up to 800 discs. Names can be shown on the front panel. For the CDP-CX450, names are also displayed on the LCD of Sony's 2-way remote control and on a television screen!

**DOT MATRIX DISPLAY** A superior way to show names and numbers on the front panel. It's far more legible.

**DTS PASS-THROUGH** Optical digital output enables you to decode dts (Digital Theater System) multi-channel digital CDs when connected to the Sony STR-DE945, DE845 or DE545 receivers with built-in dts decoders.

**EASY EJECT** A motorized assist on Sony 400- and 300-CD MegaStorage changers that makes it easy to add and remove discs.

**EASY PLAY** Makes it simple to use a Sony 400- and 300-CD MegaStorage changer to play an additional CD, such as when a friend visits.

**EDIT FUNCTIONS** Time Edit, Program Edit and Multi-Disc Program Edit fit CD selections into a specified amount of time. They make recording onto MiniDisc and Cassette a snap.

**FADER** A control that you can use to fade-in at the start of songs, fade-out at the end. Useful when editing music to MiniDisc or cassette.

**GROUP FILE** The MegaStorage Custom File feature that lets you designate eight different types of music for classifying discs. Group names might be genres of music (ROCK, CLASSICAL) or family members (KEVIN, DAD) or both. Discs can belong to more than one Group.

**HIT LIST** Remembers 32 of your all-time favorite songs, ready for instant access no matter what disc they're on.

**HYBRID PULSE D/A CONVERTER** Hybrid design places the digital filter and D/A converter on a single integrated circuit for shorter signal paths, reduced interference. The pulse converter minimizes zero-cross distortion, considered by researchers to be the most audible distortion in CD players. The result is remarkably smooth, open sound – even during delicate quiet passages.

**INSULATOR FEET** Help prevent shelf-borne vibration from affecting the analog circuitry and the laser servo.

**JOG DIAL** A convenient control that rotates through tracks or through discs. Models with Custom File text entry also use the jog dial to rotate through the alphabet when storing disc, track and Group File names.

**JOG DIAL DIRECT ACCESS DISC SELECTION** On 5-disc carousel changers, a convenient dial that has the changer go directly to your disc.

**LCD REMOTE** A remarkable 2-way remote control that not only sends commands to the player, but also receives information back from the player! The Liquid Crystal Display puts Disc Memo names and CD Text information in the palm of your hand.

**MEGASTORAGE 50+1, 200, 300 AND 400**

**DISC CAPACITY** Sony's MegaStorage CD changers mean you may never need to open another CD jewel box!

**MEMO SCAN** Lets you browse MegaStorage CDs by location. Disc Memo names flash by as you turn the jog dial.

**MEMO SEARCH** Lets you browse MegaStorage CDs alphabetically. Disc Memo names flash by as you turn the jog dial.

**MUSIC CALENDAR** A front panel display that indicates tracks programmed, played and remaining.

**MUSIC SCAN** Three high-speed search modes to help you find a spot within a track.

**NO-DELAY PLAY** Lets you program tracks and discs on two changers, switching immediately from one changer to another. There's no waiting for either to go through a disc change cycle.

**ON-SCREEN DISPLAY** A graphical user interface on your television screen. Makes it easy to search through lists of disc names and artist names to find the music you want!

**OPTICAL DIGITAL OUTPUT** Offers pure, digital-to-digital connection to an MD recorder or DAT recorder. Enables dts encoded CDs to be played through an outboard decoder, such as Sony's A/V receivers with built-in dts decoding, the STR-DE945, DE845 and DE545.

**PC KEYBOARD INPUT** On 300 and 400-disc models, the easy way to enter Custom File text information on a Sony MegaStorage changer. Enables you to plug in a standard PC-compatible keyboard and type your CD titles.

**PEAK SEARCH** When editing music onto cassette, it would be nice to find the loudest passage on a CD. That's what Peak Search does, making it easy to set exactly the right recording levels.

**PLAY 1, EXCHANGE 4** Five-disc carousel system that lets you change four CDs while the fifth one plays.

**PLAY MODES** Sony gives you many ways to play your discs, including Continuous Play of 1 or All Discs, Shuffle Play for 1 or All Discs and Programming of favorite songs in your own selected sequence.

**PROGRAMMING** Plays up to 32 songs or entire discs in any sequence you choose. On CD changers, programmed songs can be freely mixed from any stored CD.

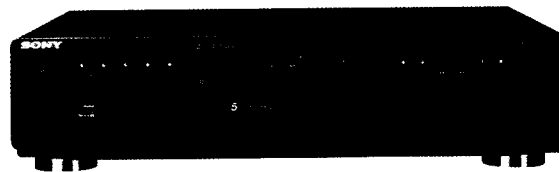
**REMOTE COMPATIBLE** The CDP-CE245 and CDP-XE400 include an infrared "eye" compatible with the system remote control that comes with Sony A/V receivers.

**SECOND CD INPUT** Enables selected Sony CD changers to connect a MegaStorage CD changer and route the signal from both to a single receiver input.

**TIMER SWITCH** For music when you awaken. Automatically enters the Play mode when an external timer activates AC power.

### CDP-CE245 5-DISC CAROUSEL CHANGER

- ▲ Play 1, Exchange 4 capability
- Jog Dial Direct Access track selection
- 20-track Music Calendar
- Peak Search
- Time Edit
- Hybrid Pulse D/A converter
- Digital Servo Control
- Time Fade
- Optical digital output
- Anti-resonant off-center insulator feet
- Remote compatible with Sony receiver remote control



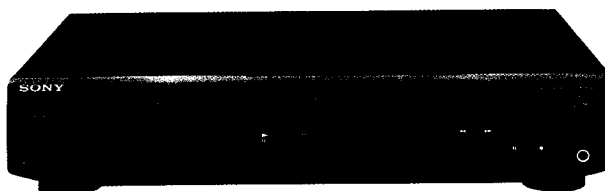
### CDP-XE500 CD PLAYER

- Hybrid Pulse D/A converter
- 8x oversampling digital filter
- Digital Servo Control
- Jog Dial track search
- 3 Play modes, 2 Repeat modes
- ▲ Optical digital output
- ▲ Digital Volume control
- 24-track programming
- 20-track Music Calendar
- Anti-resonant off-center insulator feet
- ▲ Remote Commander remote control



### CDP-XE400 CD PLAYER

- Hybrid Pulse D/A converter
- 8x oversampling digital filter
- Digital Servo Control
- Jog Dial track search
- 3 Play Modes, 2 Repeat Modes
- 24-track programming
- 20-track Music Calendar
- Anti-resonant off-center insulator feet
- Remote compatible with Sony receiver remote control



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2000 HOME AUDIO

## High Fidelity Accessories

*Complete your system, extend your capabilities*

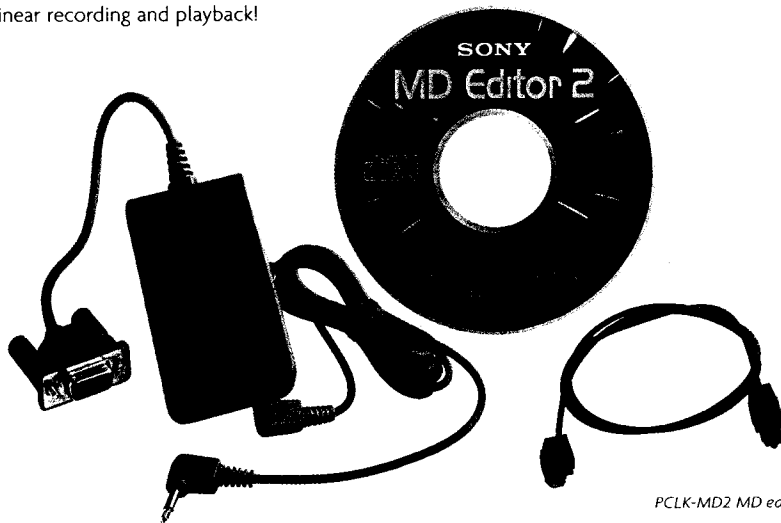


SONY HOME ENTERTAINMENT UNIVERS

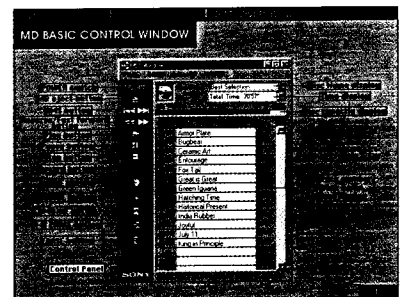
YOUR AUDIO SYSTEM  
CAN DO MORE.  
AND SONY CAN  
MAKE IT EASY.

How'd you like to edit MiniDiscs with PC drag-and-drop simplicity? Or bring a library of old LPs back to life? Or correct acoustic deficiencies that no amount of speaker relocation has been able to solve? These issues and others are artfully solved by Sony high fidelity accessories. These high-performance additives are good for your system.

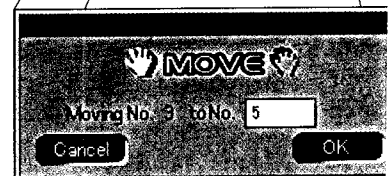
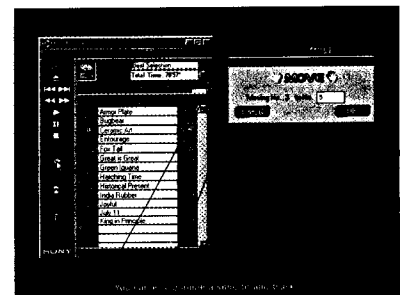
**EDIT MINIDISCS FROM THE COMFORT OF YOUR PC!** Thanks to Sony, editing your MiniDiscs is as easy as point-and-click, drag-and-drop! Now you can edit MDs using Windows® 95 or Windows 98 PC! Sony's PCLK-MD2 MD editor kit leverages the intelligence of Sony CD changers with Custom Memory™ and CD Text™ display, so your changer always knows which CD is which. It features the brilliance of Sony's Control A-1 interface, so the CD title is shared with the rest of your system. Finally, the kit takes full advantage of MiniDisc's incredible nonlinear recording and playback!



PCLK-MD2 MD editor kit



Basic Control Function



Edit Function

Some of these accessories are useful components in the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television.

SONY HOME ENTERTAINMENT UNIVERSE



**SURROUND SOUND WITHOUT WIRES** Even if you love the idea of surround sound, you might not love running wires from the front of your room to the back. The Sony SA-IF70 wireless speakers and IAD-IF70 input adapter can help. Together, they form the high-quality, high-fidelity solution that uses infrared transmission instead of front-to-back wires. You get all the sound, without all the wires.

**AN IMPORTANT ADDITION FOR LASERDISC PLAYBACK** If you need to connect a Laserdisc Dolby Digital™ output to a Sony receiver with Dolby Digital processing, you need to convert the RF connection to an optical or coaxial digital link. That's the exact function of Sony's MOD-RF1 Dolby Digital RF demodulator.

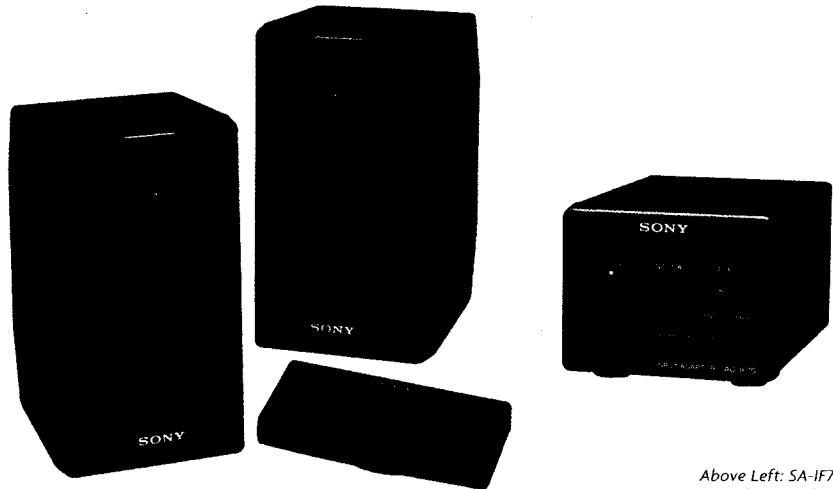
#### SONY HASN'T FORGOTTEN YOUR LPS

The people who co-invented the Compact Disc still have fond memories of LP records. That's why Sony still builds four turntables, including the PS-J11, which matches most of Sony's MHC Series mini hi-fi component systems and the PS-LX56Si, which matches most Sony LBT Series midi systems.

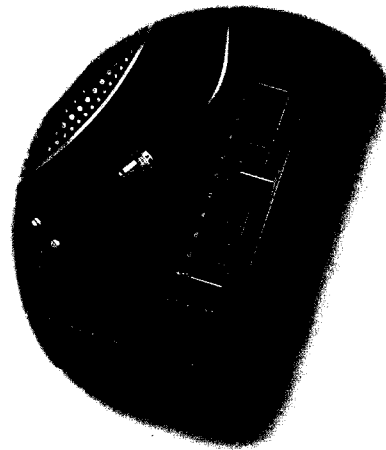
**STANDS BY ME** In the headlong rush to 5.1-channel Dolby Digital surround sound, Sony hasn't forgotten the practical considerations of placing six speaker cabinets in an actual room. That's where Sony speaker stands come in. Sony's WS-FV10 and WS-WV10 are the smart, slick way to mount the satellite speakers in Sony's SA-VE Series six-speaker packages.

#### SMOOTHING OUT THE ROUGH SPOTS:

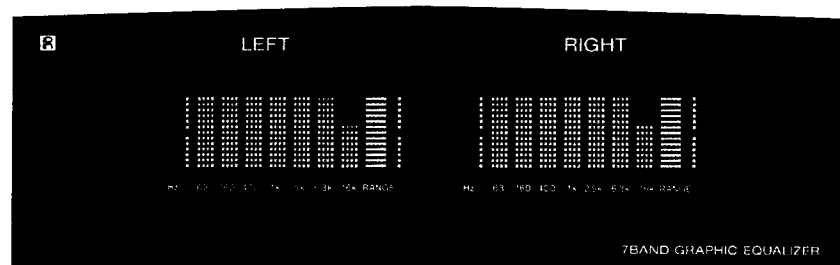
**EQUALIZATION** Bass and treble controls can't always do it. Moving furniture won't always achieve it. Relocating speakers can't always make it happen. Getting the most out of your listening room often requires something more: a graphic equalizer. The Sony SEQ-711 provides the precise EQ bands necessary to tackle almost any assignment. And its multiple presets enable you to adjust for video, music, different source components, live recording sessions and more.



Above Left: SA-IF70 Wireless Speakers.  
Above Right: IAD-IF70 Input Adapter.



Adjust the musical pitch of your music to match your instrument with the PS-LX350H pitch control.



Fluorescent display lets you see your current equalizer settings.

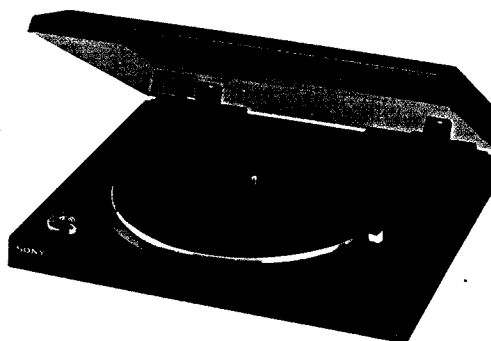
#### PS-LX350H MANUAL TURNTABLE

- Full manual operation
- Pitch control
- Full-sized aluminum platter
- Servo speed control
- S-shaped tonearm
- Static balance tonearm
- 33-1/3 and 45 rpm speeds
- Belt drive system
- Supplied moving magnet phono cartridge
- Bonded diamond stylus
- Supplied dust cover



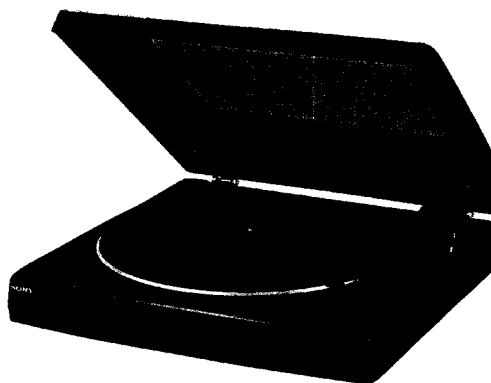
#### PS-LX250H FULLY-AUTOMATIC TURNTABLE

- ▲ Fully-automatic operation
- 33-1/3 and 45 rpm speeds
- Belt drive system
- Static balance tonearm
- Convenient, front mounted controls
- Supplied moving magnet phono cartridge
- ▲ Built-in phono preamp (when your amp doesn't have a designated PHONO input)
- Bonded diamond stylus
- Supplied dust cover



#### PS-LX56SI SEMI-AUTOMATIC TURNTABLE

- ▲ 14" "Midi" component width matches Sony LBT Series systems
- Semi-automatic operation
- 33-1/3 and 45 rpm speeds
- Belt drive system
- ▲ Static balance tonearm
- ▲ Convenient, front mounted controls
- Supplied moving magnet phono cartridge
- ▲ Bonded diamond stylus
- Supplied dust cover



#### PS-J11 SEMI-AUTOMATIC TURNTABLE

- ▲ 11" "Mini" component width matches Sony MHC Series systems
- Semi-automatic operation
- 33-1/3 and 45 rpm speeds
- Belt drive system
- Supplied moving magnet phono cartridge
- ▲ Built-in phono preamp (when your amp doesn't have a designated PHONO input)



#### PCLK-MD2 MD EDITOR 2 PACKAGE

- Includes Windows® 95/98 compatible software for MiniDisc editing from your PC
- Drag and Drop tracks from a CD player or MegaStorage® CD changer to record them onto MiniDisc
- Move and Erase tracks quickly and easily, before recording them onto MD
- Assign MD track titles using the PC keyboard
- On-screen buttons for basic MD control functions: record, play, pause, stop, next track, previous track, move, add, erase and many more
- Package includes software CD-ROM, interface (for PC) and Sony Control A1 interface (for MiniDisc recorder)



#### SEQ-711 ELECTRONIC EQUALIZER

- 7 + 7 band electronic equalizer
- 5 factory and 10 user preset equalization curves
- Center frequencies at 63, 160 and 400 Hz, 1 k, 2.5 k, 6.3 k and 16 kHz
- Fluorescent spectrum analyzer display
- Cursor control system
- Anti-resonant aluminum front panel
- Supplied Remote Commander® wireless remote control



#### SA-IF70 WIRELESS SURROUND SPEAKER PACKAGE

- For use with Sony receivers and Sony SAVA™ Series surround speaker systems equipped with Wireless Rear Speaker Outputs or for use with any surround sound receiver, when connected to the optional IAD-IF70 input adapter
- Wireless transmitter
- Two powered surround speakers with built-in wireless receivers
- 3" full-range drive units
- 25 watts per channel x 2, both channels driven into 8 ohms, from 60 to 20,000 Hz, 0.9% THD
- Transmitter dimensions (W x H x D): 6-1/4 x 2-1/2 x 3-1/2"
- Transmitter weight: 6 lbs., 3 oz.



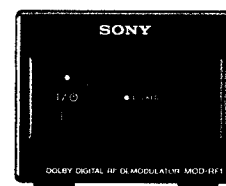
#### IAD-IF70 WIRELESS SPEAKER INPUT ADAPTER

- Connects any conventional surround sound receiver to the SA-IF70 wireless rear speaker package
- AC power adapter
- Input level control
- Dimensions (W x H x D): 3-1/2 x 2-3/4 x 4"



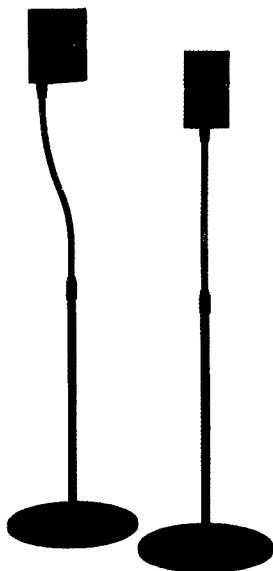
#### MOD-RF1 DOLBY DIGITAL RF DEMODULATOR

- For playback of Dolby Digital encoded Laserdiscs
- Connects a Laserdisc player RF output to the optical or coaxial input of Dolby Digital decoders and receivers
- RF digital input
- Optical and coaxial digital outputs



## WS-FV10 FLOOR STANDS

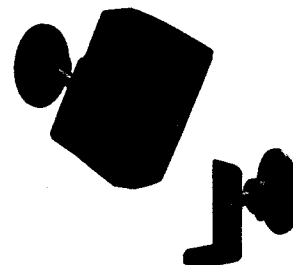
- For use with SA-VE815ED, VE705, VE505, VE315 and VE305 satellite speakers
- Adjustable height
- Hollow tubes hide speaker cable
- Stand head designed to conceal wire connection
- Two stands per package



Stands shown with SA-VE505 satellite speakers

## WS-WV10 WALL MOUNTS

- For use with SA-VE815ED, VE705, VE505, VE315 and VE305 satellite speakers
- Enable flexible placement on wall
- Two mounts per package



Mount shown with SA-VE505 satellite speaker

## SPECIFICATIONS

### SEQ-711

Center Frequencies	63, 160 and 400 Hz, 1 k, 2.5 k, 6.3 k and 16 kHz
Adjustment Range	±10 dB
Total Harmonic Distortion	<0.01%
Signal-to-Noise Ratio	>100 dB
Dimensions (W x H x D)	17 x 43/4 x 11" (430 x 120 x 280 mm)
Weight	4 lbs, 11 oz (2.1 kg)

	PS-LX350H	PS-LX250H	PS-LX565I	PS-J11
Platter	13" (33 cm)	12" (29.5 cm)	12" (30 cm)	N/A
Speeds	33-1/3, 45 rpm	33-1/3, 45 rpm	33-1/3, 45 rpm	N/A
Wow and flutter, WRMS	<0.1%	<0.25%	<0.2%	N/A
Signal-to-noise ratio with supplied cartridge, DIN-B	>55 dB	>50 dB	>60 dB	N/A
Tonearm effective length	9" (230 mm)	7-5/8" (195 mm)	8" (203 mm)	N/A
Dimensions (W x H x D)	17-3/4 x 6-3/8 x 14-1/4" (450 x 160 x 360 mm)	16-1/2 x 4 x 13-1/2" (420 x 100 x 342 mm)	14 x 3-3/4 x 13-5/8" (355 x 94 x 345 mm)	11 x 3-3/4 x 12-5/8" (280 x 95 x 320 mm)
Weight	15 lbs, 7 oz (7 kg)	6 lbs (2.7 kg)	5 lbs, 8 oz (2.5 kg)	4 lbs, 12 oz (2.1 kg)

<sup>1</sup> Remote control of non-Sony equipment: may not be compatible with some brands or models.

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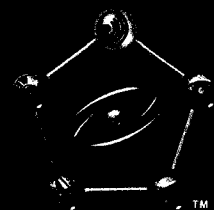
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2000 HOME AUDIO

# A/V Receivers

Home entertainment that exceeds your expectations



SONY HOME ENTERTAINMENT UNIVERSE

SIT DOWN.  
THE PERFORMANCE  
IS ABOUT  
TO BEGIN.

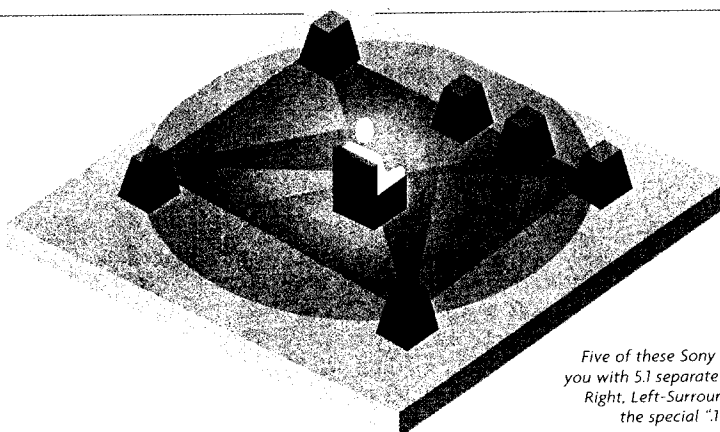
Whether it's DVD, digital satellite, cable TV, broadcast TV or even High Definition TV. Whether it's Dolby Digital™, dts® or Dolby® Pro Logic® encoding. Surround sound comes alive with Sony A/V receivers. Sony provides all the decoding you'll need and amazing 32-bit Digital Signal Processing.

A slick remote control, and sound so powerful, so all-immersive that once you've heard it, you'll never want to go back. So experience your home entertainment to the fullest. Experience it on a Sony A/V receiver.

#### FIVE WAYS SONY GETS THE BEST FROM

**SURROUND SOUND** Cable TV, broadcast TV, and even VHS movie rentals offer Dolby Pro Logic programming, while DVD, digital satellite and High Definition television go even further with digital surround sound. For all these sources, Sony receivers have five distinct features that help bring surround sound to vibrant life.

1. **Dolby Digital decoding** Digital home entertainment sources use the same Dolby Digital multi-channel soundtracks you hear in first-run movie theaters! That's why it's so important to have the right playback equipment: a Sony receiver and set of surround sound speakers. With this setup, you'll hear fabulous digital clarity. You'll be carried away by six channels of sound. You'll hear the superior precision of Sony's 24-bit decoder. You'll benefit from the superior control of Sony's Dolby Digital adjustments. So movies have the excitement and impact you heard in the theater. Bass is stronger and closer to the movie director's original intent. The entire experience becomes more exciting. More involving. More real.



Five of these Sony receivers can surround you with 5.1 separate channels: Left, Center, Right, Left-Surround, Right-Surround and the special ".1" channel just for bass.

2. **dts® decoding** Some DVD producers prefer an alternate multi-channel system: dts (Digital Theater System) audio. With Sony's top three receivers, you've got all the latest processing.

3. **5.1-channel inputs** Sony A/V receivers also feature 5.1-channel inputs. So they're ready for outboard multi-channel sources now and in the future!

4. **Equal power to all five channels** Doing full justice to digital surround sound means doing equal justice to all five of the full-range channels. That's why Sony delivers equal power to your Left, Center, Right, Left-Surround and Right-Surround speakers. To complete the picture, Sony provides a line-level output for a powered subwoofer.

5. **Sony's exclusive Digital Cinema Sound™ system** Even the most precise decoding can't compensate for your listening room acoustics. But Sony can! For the full story, read on.

*These A/V receivers are key components in the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!*



SONY HOME ENTERTAINMENT UNIVERSE



*These three Hollywood dubbing stages are famous for their acoustic excellence. Cinema Studio modes bring these theaters home!*

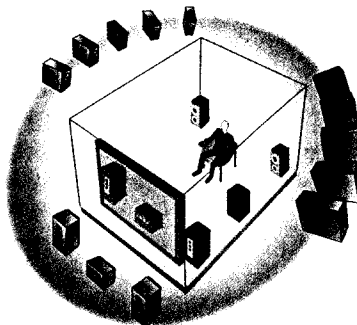
#### ONLY SONY OFFERS THE DIGITAL CINEMA

**SOUND SYSTEM** What is the ultimate reference or movie theater sound? It's the Hollywood dubbing stage – where directors go to mix, evaluate and approve a movie's final sound racks. Now precisely this sound has been brought home, courtesy of Sony's Digital Cinema sound system. These digitally recreated acoustic environments are based on actual measurements made at top dubbing stages in Hollywood. Which means that Sony receivers make your movies sound exactly the way they were meant to be heard! And this technology is easy to access, thanks to direct-select front panel buttons.

**CINEMA STUDIO EX MODES** For an even closer approach to true theater sound, Sony's Cinema Studio EX modes make two additional corrections. First, they process the front sound to enlarge the apparent distance to your television screen. Second, they recreate the movie theater's array of surround speakers by generating ten virtual surround speakers. And they perform this magic while duplicating the acoustics of a Hollywood sound stage! The cumulative effect is overwhelming. When you play a DVD, the walls of your room seem to push back dramatically. Your screen seems bigger. And all your entertainment takes on full theatrical impact!

#### VIRTUAL SURROUND TECHNOLOGY

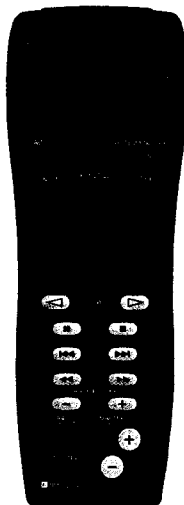
Sony makes it possible to enjoy surround sound – even if you have no rear speakers at all! Sony's affordable STR-DE345 does the job with Virtual Dolby Surround™ processing. The STR-DE545 and DE445 go further with two Virtual 3D modes that generate an array of up to five pairs of virtual rear speakers. And the top-of-the line STR-DE945 and DE845 incorporate Sony's Semi Cinema Studio EX modes. These recreate the surround sound environment of Hollywood dubbing stages, using only the front speakers!



*Sony's Cinema Studio EX modes duplicate movie theater sound in three important ways: greater apparent distance from the listener to the screen, a full array of ten virtual surround speakers and the precise reverberation characteristics of a Hollywood sound stage.*

#### START YOUR PROCESSING ENGINES: 24 BIT +

**32 BIT DSP** The Sony STR-DE945 and DE845 can offer such remarkable digital features because they incorporate two remarkable Digital Signal Processors (DSPs). Dolby Digital, dts and Dolby Pro Logic decoding are handled by a dedicated 24-bit DSP engine of superlative performance. Unique Digital Cinema Sound modes, Virtual 3D modes and advanced parameter adjustments originate in a separate 32-bit DSP – for vastly greater resolution and detail! So you'll hear sound that's superbly realistic, supremely detailed.



*Read all about it! The STR-DE945 two-way remote incorporates an informative LCD screen.*

**DOLBY PRO LOGIC DECODING** Because not all your entertainment will come from DVDs, five Sony receivers also incorporate Dolby Pro Logic decoding. So you'll be ready to hear the best from hundreds of VHS Hi-Fi movie releases, plus a growing range of digital satellite programs, TV sports, drama and movie broadcasts!

#### 2-WAY PRE-PROGRAMMED LCD REMOTE

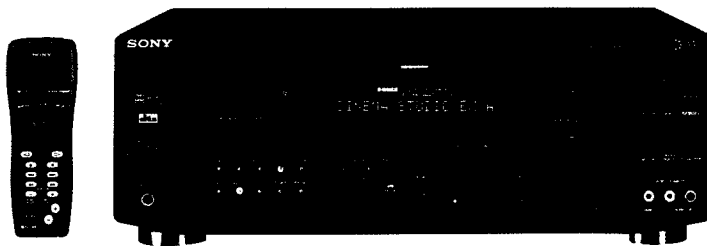
**COMMANDER® UNIT** Picking up the LCD Remote of Sony's STR-DE945 is like holding your entire A/V System in the palm of your hand. Your system's information appears on the remote screen, including AM/FM station preset name surround sound modes and even disc titles with compatible Sony CD players and MiniDisc decks. Not only does this remarkable remote send commands to the receiver, but the receiver sends status messages and data back to the remote! It's true 2-way communication, for the fastest, easiest, most dynamic system control you've ever experienced.

**MULTI-ROOM AUDIO OUTPUT** Now you can "share" music from your main system with other rooms in the house. So listeners in a second room can enjoy music from your MiniDisc recorder, cassette deck or even from a 200, 300 or 400-CD MegaStorage® changer! The STR-DE945 offers a multi-room audio output with independent source selection. This line-level output can deliver your second source to amplified speakers, a bookshelf system or a second stereo receiver, such as the STR-DE135.

**VIRTUAL  
DOLBY  
SURROUND**

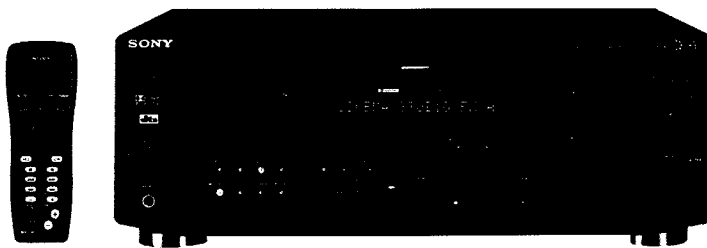
### STR-DE945 A/V RECEIVER

- ▲ Stereo Mode: 110 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- ▲ Surround Mode: 110 watts per channel x5, 8 ohms, 1,000 Hz, 0.7% THD
- 4-ohm/8-ohm switch
- ▲ On-screen display for easy set-up
- ▲ Multi-room audio output with independent source selection
- ▲ Preprogrammed and learning 2-way LCD remote control with Macro capability shows station names, CD titles, surround sound modes and more – right in your hand; remote operates many brands of A/V equipment, including digital satellite receivers and DVD player menu control\*
- 24-bit Dolby Digital and dts decoder
- Dolby Pro Logic decoding
- 32-bit DSP with 27 acoustic environments
- Digital Cinema Sound system with three Cinema Studio EX modes
- Virtual 3D and Virtual Theater modes
- ▲ 10-function input selector with Phono input and S-Video switching
- 3 Optical digital inputs, 1 coaxial digital input
- 5.1 multi-channel input



### STR-DE845 A/V RECEIVER

- Stereo Mode: 100 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- Surround Mode: 100 watts per channel x5, 8 ohms, 1,000 Hz, 0.7% THD
- 4-ohm/8-ohm switch
- ▲ Preprogrammed LCD remote control with Macro capability simplifies operation; operates many brands of A/V equipment, including digital satellite receivers and DVD player menu control\*
- 24-bit Dolby Digital and dts decoder
- Dolby Pro Logic decoding
- ▲ 32-bit DSP with 27 acoustic environments
- ▲ Digital Cinema Sound system with three Cinema Studio EX modes
- Virtual 3D and Virtual Theater modes
- ▲ 9-function input selector with Phono Input
- ▲ 3 Optical digital inputs, 1 coaxial digital input and S-Video switching
- 5.1 multi-channel input



### STR-DE545 A/V RECEIVER

- ▲ Stereo Mode: 100 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- ▲ Surround Mode: 100 watts per channel x5, 8 ohms, 1,000 Hz, 0.7% THD
- ▲ 4-ohm/8-ohm switch
- ▲ Preprogrammed remote operates many brands of A/V equipment, including Digital Satellite System receivers and DVD player menu control\*
- ▲ 24-bit Dolby Digital and dts decoder
- Dolby Pro Logic decoding
- 5.1-channel input
- Digital Signal Processing with 11 acoustic environments
- Digital Cinema Sound system with three Cinema Studio modes
- Virtual 3D modes
- ▲ 8-function input selector
- ▲ 2 Optical digital inputs, 1 coaxial digital input and S-Video in/out
- ▲ Control A1 II interface
- ▲ Speaker A+B terminals with parallel connection





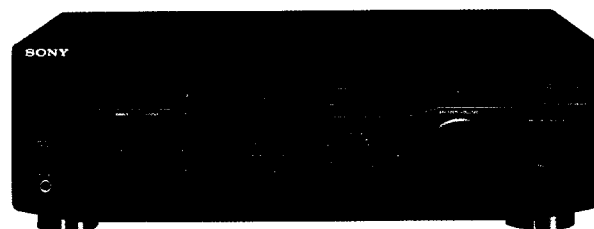
### STR-DE445 A/V RECEIVER

- Stereo Mode: 80 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- Surround Mode: 80 watts per channel x5, 8 ohms, 1,000 Hz, 0.7% THD
- 24-bit Dolby Digital and dts decoder
- Dolby Pro Logic decoding
- 5.1-channel input
- Digital Signal Processing with 11 acoustic environments
- Digital Cinema Sound system with three Cinema Studio modes
- Virtual 3D modes
- 8-function input selector
- 1 Optical digital input, 1 coaxial digital input
- Subwoofer output
- A/V UniCommander® remote also operates Sony televisions



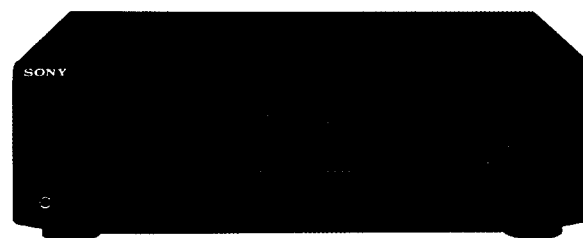
### STR-DE345 A/V RECEIVER

- Stereo Mode: 100 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- Surround Mode: 100 watts per channel x5, 8 ohms, 1,000 Hz, 0.7% THD
- 5.1-channel input with surround control
- Preprogrammed remote operates many brands of A/V equipment
- Dolby Pro Logic decoding
- Virtual Dolby surround sound
- Digital Signal Processing with 4 acoustic environments
- Soundfield link
- Digital Cinema Sound Cinema Studio mode DSP
- Subwoofer output
- 5-function input selector



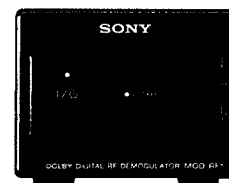
### STR-DE135 A/V RECEIVER

- Stereo Mode: 100 watts per channel x2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- 5-function input selector
- Frequency synthesis AM/FM tuning with 30 presets
- Discrete output transistors
- Headphone output
- Sleep timer
- A/V UniCommander remote control with phosphorescent glow keys
- 5-function input selector



### MOD-RF1 DOLBY DIGITAL RF DEMODULATOR

- For playback of Dolby Digital encoded Laserdiscs
- Connects a Laserdisc player RF output to the optical or coaxial input of Dolby Digital receivers or decoders
- Ideal for STR-DE945, DE845, DE545, DE445
- RF digital input
- Coaxial digital output
- Optical digital output



**24 BIT + 32 BIT DSP** Separate DSP engines for Dolby Digital decoding (24 bit) and acoustic soundfields (32 bit) make for unsurpassed flexibility and performance.

**4-OHM/8-OHM SWITCH** Enables reliable operation with low-impedance speakers.

**5.1-CHANNEL INPUTS (DOLBY DIGITAL READY)** They connect a DVD Player with built-in Dolby Digital processing so you can enjoy the benefits of this amazing new entertainment experience. This multi-channel input also allows for future flexibility.

**AM/FM RANDOM STATION PRESETS** Feature that stores AM and FM stations in any combination.

**BASS REDIRECTION CONTROL** Directs the Dolby Digital Low Frequency Effects (LFE) channel according to your speaker setup: Front Large/Small, Center Large/Small/No, Rear Large/Small and Subwoofer Yes/No.

**CHANNEL BALANCE AND LEVEL CONTROLS** Enables you to fine-tune Dolby Pro Logic and Dolby Digital surround sound.

**CONTROL A1 II** Interface that enables a receiver to communicate with other Sony audio components that have the Control A1 II interface.

**DIGITAL CINEMA SOUND SYSTEM** A group of Sony exclusive developments that represent a total re-thinking of home theater sound. Produces the sound that movie directors intended by recreating the precise acoustics of three post-production dubbing stages in Hollywood. Front panel direct select buttons make for easy access. Sony's top receivers include Digital Cinema Sound refinements including Cinema Studio EX, Virtual Rear, Virtual 3D and Virtual Mix modes.

**DIGITAL SIGNAL PROCESSING (DSP)** Circuit that reproduces movies and music in the appropriate setting: movies in a Theater, classical music in a Hall, rock music in an Arena, for example.

**DISCRETE OUTPUT TRANSISTORS** Amplifier devices that offer high speed, high current capacity and low distortion.

**DOLBY DIGITAL DECODER BUILT-IN** Enables multi-channel digital surround sound that is far more dynamic, spacious and realistic. Generates 5.1 discrete channels of sound for Left, Right, Center, Left Surround, Right Surround and Subwoofer.

**DOLBY DIGITAL ADJUSTMENTS** A complete suite of menu selections and controls lets you match the decoder output to your specific speaker set-up and listening room. Often missing in less expensive decoders, these adjustments include Bass Redirection Settings, Variable Delay Time, Individual Channel Balance and Volume.

**DOLBY PRO LOGIC SURROUND SOUND** The classic system that brings home the excitement and emotional impact of movie sound tracks. Decodes and amplifies the surround channels already encoded in most movie videocassettes and laserdiscs, many TV dramas and sports broadcasts.

**DTS (DIGITAL THEATER SYSTEM) DECODER BUILT IN** Enables multi-channel digital surround sound that is dynamic, spacious and realistic. Generates 5.1 discrete channels of sound for Left, Right, Center, Left Surround, Right Surround and Subwoofer.

**ELECTRONIC BASS AND TREBLE** Tone controls that achieve lower noise and distortion.

**EQUAL POWER TO ALL FIVE CHANNELS** Left, Right, Center, Left-Surround and Right-Surround get the same power output – important for theater-quality Dolby Digital and dts multi-channel surround sound.

**FIVE-CHANNEL DSP** This advanced version of Digital Signal Processing spreads the rear speaker sound, creating a huge soundstage rivaling professional theater installations.

**FREQUENCY SYNTHESIS** System that tunes AM/FM stations with maximum accuracy, minimum drift. Always tunes to the center of the broadcast channel for minimum distortion.

**GLOW-KEY REMOTE** Lets you tune channels, adjust volume and more – without turning on lights. During the day, the keys absorb energy from ambient light. At night, the keys glow.

**MULTI-ROOM AUDIO OUTPUT** An independently-selectable line-level output that makes your music available to a system in a 2nd room. It's great for sharing a 400-CD MegaStorage changer with more than one room.

**MUTING** Switch that lowers the output by 15 dB for telephone calls and other temporary interruptions. Enables you to resume listening at your previous level at the touch of a button.

**PRE-PROGRAMMED REMOTE** Lets you operate many non-Sony components from the receiver remote.\*

**S-VIDEO INPUTS AND OUTPUTS** Enable you to connect video equipment to your A/V receiver at very high signal quality. S-Video keeps the black-and-white signal (luminance) apart from the color signal (chrominance) to maintain superior picture quality.

**STATION MEMO™ DISPLAY** Memory system that lets you assign names for your preset stations, like ROCK, CLASSICAL, NEWS or JAZZ.

**SUBWOOFER OUT** Mixes information from left, center and right channels. Perfect for the "L" Low Frequency Effects channel of Dolby Digital and dts sound tracks.

**SURROUND CONTROL FOR 5.1 CHANNEL INPUTS** Enables you to connect a 5.1-channel source and still enjoy the benefit of the receiver's powerful Digital Signal Processing as well as Digital Cinema Sound processing. You retain comprehensive control. (STR-DE345)

**VARIABLE DELAY TIME** Adjusts the surround sound to match your listening room and speaker setup. Synchronizes the arrival of sound from Front, Center and Surround speakers, for Dolby Pro Logic, dts and Dolby Digital reproduction.

**VIRTUAL DOLBY SURROUND** Enables you to enjoy the surround sound effect, even when you can't connect rear speakers! Creates the effect from just two front speakers. (STR-DE345)

**VIRTUAL 3D PROCESSING** Spreads the rear channels across as many as five pairs of "virtual" rear speakers. Enables you to adjust the precise location of these speakers for an all-encompassing surround sound experience – such as you would expect at a state-of-the-art movie theater.

	STR-DE945	STR-DE845	STR-DE545	STR-DE445	STR-DE345	STR-DE135
<b>SPECIFICATIONS</b>						
Stereo Mode Power Output, both channels driven, 20 – 20,000 Hz, 0.09% THD	110 w x2 into 8 $\Omega$	100 w x2 into 8 $\Omega$	100 w x2 into 8 $\Omega$	80 w x2 into 8 $\Omega$	100 w x2 into 8 $\Omega$	100 w x2 into 8 $\Omega$
Surround Mode Power Output, all channels driven, 1000 Hz, 0.7% THD	110 w x5 into 8 $\Omega$	100 w x5 into 8 $\Omega$	100 w x5 into 8 $\Omega$	80 w x5 into 8 $\Omega$	100 w x5 into 8 $\Omega$	—
4-ohm/8-ohm Switching	Yes	Yes	Yes	—	—	—
Discrete Output Transistors	Yes	Yes	Yes	Yes	Yes	Yes
Equal Power to 5 Channels	Yes	Yes	Yes	Yes	Yes	—
Dolby Digital Decoder	Yes	Yes	Yes	Yes	—	—
dts Decoder	Yes	Yes	Yes	Yes	—	—
5.1-Channel Inputs	Yes	Yes	Yes	Yes	Yes	—
Surround control on 5.1 channel inputs	—	—	—	—	Yes	—
Dolby Pro Logic Decoder	Yes	Yes	Yes	Yes	Yes	—
Multi-Room Audio Output	Yes	—	—	—	—	—
Fluorescent Display	Dot Matrix	Dot Matrix	Yes	Yes	Yes	Yes
AM/FM Random Presets	30	30	30	30	30	30
Station Memo Display	Yes	Yes	Yes	Yes	—	—
Remote with LCD Display	2-Way	1-Way	—	—	—	—
Learning Remote	Yes	—	—	—	—	—
Remote Control Macros	Yes	Yes	—	—	—	—
Pre-Programmed Remote	Yes	Yes	Yes	Unified	Yes	Unified
DVD and Digital Satellite System receiver control	Yes	Yes	Yes	—	Yes	—
Digital Signal Processing (DSP)	Full 24 bit + 32 bit	Full 24 bit + 32 bit	24 bit	24 bit	DSP Surround	—
DSP Acoustic Environments	27	27	11	11	4	—
Digital Cinema Sound System	Yes	Yes	Yes	Yes	Yes	—
Cinema Studio Modes	3 EX	3 EX	3	3	1	—
Virtual Surround Sound	Digital Cinema Sound Virtual 3D	Digital Cinema Sound Virtual 3D	Digital Cinema Sound Virtual 3D	Digital Cinema Sound Virtual 3D	Virtual Dolby Surround	—
Soundfield Parameters	11	11	8	8	5	—
Variable Delay Time, Level	Yes	Yes	Yes	Yes	Yes	—
Variable Surround Effect Level	Yes	Yes	Yes	Yes	Yes	—

**INPUTS/OUTPUTS**

Audio Inputs/Outputs (excluding Tuner)	4/2	3/1	3/1	3/1	2/1	2/1
A/V Inputs/Outputs	5/2	4/2	3/1	3/1	2/1	2/1 (w/out video)
S-Video Inputs/Outputs	3/1	3/1	1/—	—	—	—
Video Monitor Output (S-Video)	1 (1)	1 (1)	1 (1)	1 (—)	1 (—)	— (—)
Optical Digital Inputs/Outputs	3/1	3/1	2/—	1/—	—/—	—/—
Coaxial Digital Input	1	1	1	1	—	—
Rear Channel Stereo	Yes	Yes	Yes	Yes	Yes	—
Headphone Output	Gold	Gold	Yes	Yes	Yes	Yes
A/B Speaker Connection	Parallel	Parallel	Parallel	A Only	A Only	Series
Control A-1 II Interface	Yes	Yes	Yes	—	—	—
Subwoofer Outputs	2	2	1	1	1	—

**SPECIFICATIONS**

Frequency Response						
Phono, RIAA	± 0.5 dB	± 0.5 dB	—	—	—	± 0.5 dB
Line	10 – 50 kHz, +0.5/-2 dB	10 – 50 kHz, +0.5/-2 dB	10 – 50 kHz, +0.5/-2 dB	10 – 50 kHz, +0.5/-2 dB	10 – 50 kHz, +0.5/-2 dB	10 – 50 kHz, +0.5/-2 dB
IHF Sensitivity	11.2 dBf	11.2 dBf	11.2 dBf	11.2 dBf	11.2 dBf	11.2 dBf
50 dB Sensitivity, Mono/ Stereo	18.3 dBf/38.3 dBf	18.3 dBf/38.3 dBf	18.3 dBf/38.3 dBf	18.3 dBf/38.3 dBf	18.3 dBf/38.3 dBf	18.3 dBf/38.3 dBf
FM Alternate Ch. Selectivity	60 dB	60 dB	60 dB	60 dB	60 dB	60 dB
FM Frequency Response	30 – 15 kHz, +0.5/-2 dB	30 – 15 kHz, +0.5/-2 dB	30 – 15 kHz, +0.5/-2 dB	30 – 15 kHz, +0.5/-2 dB	30 – 15 kHz, +0.5/-2 dB	30 – 15 kHz, +0.5/-2 dB
FM THD @ 1 kHz, Mono/Stereo	0.30%/0.50%	0.30%/0.50%	0.30%/0.50%	0.30%/0.50%	0.30%/0.50%	0.30%/0.50%
FM S/N Ratio, Mono/Stereo	76 dB/70 dB	76 dB/70 dB	76 dB/70 dB	76 dB/70 dB	76 dB/70 dB	76 dB/70 dB
Dimensions (W x H x D)	17 x 6-1/4 x 14-7/8" (430 x 157 x 380 mm)	17 x 6-1/4 x 14-7/8" (430 x 157 x 380 mm)	17 x 6-1/4 x 12" (430 x 157 x 303 mm)	17 x 6-1/4 x 12" (430 x 157 x 303 mm)	17 x 5-3/4 x 12" (430 x 145 x 304 mm)	17 x 5-3/4 x 12" (430 x 145 x 304 mm)
Weight	27 lbs, 8 oz (12.5 kg)	27 lbs, 8 oz (12.5 kg)	17 lbs, 6 oz (7.9 kg)	17 lbs (7.7 kg)	16 lbs (7.3 kg)	15 lbs, 3 oz (6.9 kg)

**FEATURES AND  
SPECIFICATIONS SUBJECT  
TO CHANGE WITHOUT  
NOTICE**

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\* Pre-programmed remote may not be compatible with all brands and models.

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**SONY®**

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SONY



2000 HOME AUDIO

## Mini Disc Recorders

*Digital recording in the fast lane*



SONY HOME ENTERTAINMENT UNIVERSE

THE ABSOLUTE  
BEST WAY  
TO RECORD  
YOUR MUSIC™

The MiniDisc is picking up speed. Digital, portable, recordable<sup>1</sup> and virtually unshockable, MiniDisc records your music your way. Now you can record MiniDiscs at 4X speed<sup>2</sup> – to capture an hour of music in only 15 minutes! You can edit MiniDiscs on your PC screen. And take advantage of Scale Factor Edit and Time Machine recording. Then Move, Combine and Divide tracks to your heart's content. It's easy with MD.

#### 4X HIGH SPEED CD-TO-MD RECORDING

If you like simplicity, you'll appreciate recording music from CD to MD. And if you like speed, you'll love Sony's high-speed CD player/MD recorders. Just load the CD into one slot. Load the MD into another and hit Record. Your music zips onto MiniDisc at 4X normal speed!<sup>2</sup> You'll record a three-minute song in just 45 seconds. Or a 74-minute CD in less than 20 minutes! It's fast, it's easy and it's oh-so-cool. And if you prefer to listen to your music as you record it, real-time recording is also an option.

**PC-BASED EDITING** Sony enables you to drag and drop songs from CD to MD. Perform point-and-click editing. And add titles from the comfort of your PC keyboard. Simply create your playlist, press Record and come back later to enjoy your MD. Sony's MD Editor software package brings these capabilities to compatible Sony MD recorders and CD players. Or choose Sony's MDS-PC2, with software included!



*These digital recorders are key components of the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!*

SONY HOME ENTERTAINMENT UNIVERSE

**SCALE FACTOR EDIT** Suppose you have a mix of tracks recorded from CD and FM. And suppose you mistakenly recorded the FM tracks too loud. Scale Factor Edit lets you adjust the volume of a track, without touching the music itself. It makes for much more professional results. You can also use Scale Factor Edit to create professional-sounding fade-outs and fade-ins – even after you've made a recording!

**TIME MACHINE RECORDING** Suppose you're listening to the radio and a hot new song comes on. With Time Machine recording, you can hit the Record button up to six seconds late – and still capture every note! The secret? The recorder stores the last six seconds of music in buffer memory.

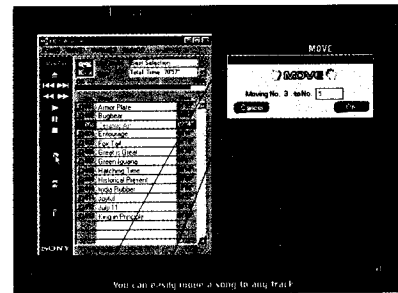
**THAT MIRACULOUS MINIDISC** It's easy to see why MiniDisc is on a roll. It's so small, yet it carries up to 80 minutes of music. Shock Resistant Memory means you can play MD anywhere. Magneto optical recording means you can record, erase and re-record until you drop. With one million re-record cycles, your MDs can take it longer than you can!

**EDITING PERSONALIZES YOUR MUSIC** With MiniDisc, you can Move, Divide and Combine tracks – shaping your music even after you've recorded it. Thanks to non-linear recording and playback, you're free to combine Track 1 with Track 5, for example, for seamless, uninterrupted play. You can also perform true editing functions like A-B Erase. There's even an Un-Do Edit that lets you change your last decision!

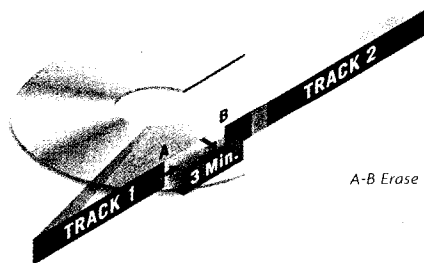
**NAME THAT TUNE: DISC AND TRACK TITLES** MiniDiscs can save disc name, track names and artist names! Selected models enable you to plug in a PC keyboard and type in your names. Scrolling displays mean your names aren't limited to just a few characters. And with CD Text and Custom File™ transfer, this information is automatically imported from compatible Sony CD players.



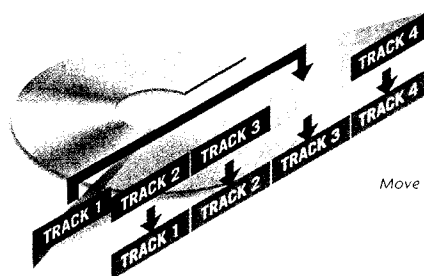
Basic Control Function



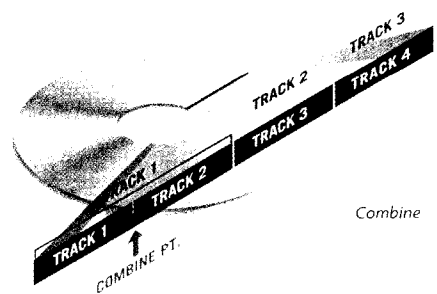
Edit Function



A-B Erase



Move



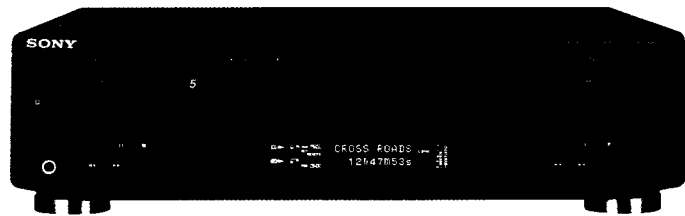
Combine

**Editing**  
By manipulating the Table of Contents, you can Move, Divide, Combine and Erase tracks – all without disturbing the recorded music itself.

**THE SOUND OF ATRAC DSP TYPE "R"** At the heart of MiniDisc audio technology is Adaptive Transform Acoustic Coding, or ATRAC. It's the process that enables Sony to put 80 minutes of digital stereo sound on a minuscule 2-1/2-inch disc! Sony's ATRAC DSP Type "R" uses an added stage that checks the accuracy of bit allocation. Bits are then re-allocated to refine the coding. Together with superior processing accuracy, the bit-reallocation yields music that's more faithful to the original. You'll hear smoother, better-articulated, more clearly delineated sound.

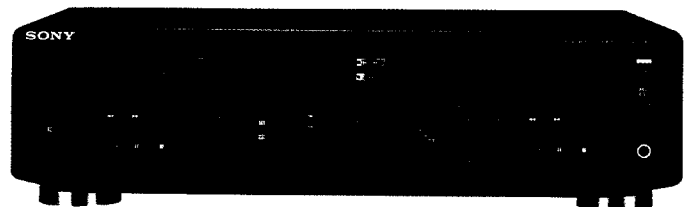
### **MXD-D5C CD CHANGER/MINIDISC RECORDER**

- ▲ 5-CD changer integrated with 1-MD recorder
- ▲ Space-saving elevator style changer mechanism
- High-speed 4X CD-to-MD recording<sup>2</sup>
- ▲ PC keyboard input for disc and track names
- Scale Factor Edit
- Two-line fluorescent display shows title information for both CD and MD
- CD Text and Custom File transfer via Control A-1 II
- Playback pitch control
- 20-Bit Analog-to-Digital Converter



### **MXD-D4 CD PLAYER/MINIDISC RECORDER**

- ▲ CD player integrated with 1-MD recorder
- ▲ High-speed 4X CD-to-MD recording<sup>2</sup>
- CD Text and Custom File transfer via Control A-1 II
- Scale Factor Edit
- Two-line fluorescent display shows title information for both CD and MD
- Playback pitch control
- 20-Bit Analog-to-Digital Converter



### **MDS-JB940 MINIDISC RECORDER**

- ▲ Variable Coefficient 24-Bit digital filter and S-TACT circuitry
- ▲ Sony MegaStorage® CD changer control
- CD Text and Custom File transfer via Control A-1 II
- ▲ Current Pulse D/A Converter
- ATRAC Type "R" Digital Signal Processing
- Scale Factor Edit
- Playback pitch control
- PC keyboard input for disc and track names
- ▲ Anti-resonant aluminum front panel; slanted PC board
- ▲ R-Core power transformer
- ▲ Coaxial and optical digital inputs and outputs





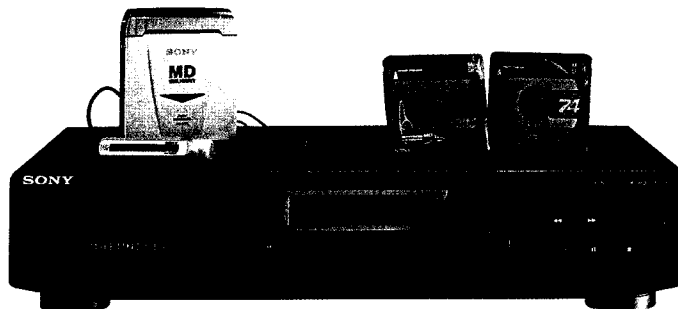
### MDS-JE440 MINIDISC RECORDER

- ▲ ATRAC Type "R" Digital Signal Processing
- ▲ 24-Bit Analog-to-Digital Converter
- Wide Bit Stream technology
- Time Machine recording with 6-second buffer memory
- Convenient jog dial for track selection, text entry
- Digital Record Level Control
- ▲ Timer standby recording
- Sampling rate converter
- Remote Commander® remote control



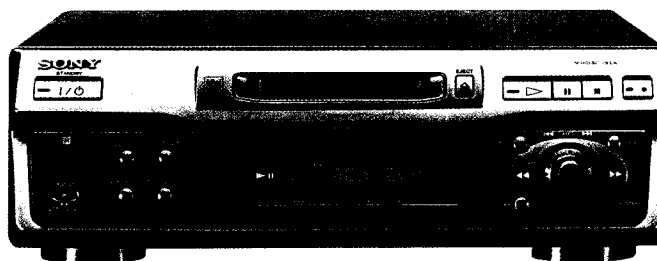
### MD BUNDLE 6

- Includes MDS-JE330 home MD recorder, MZ-E33 portable MD player and two MDW-74A blank MDs, optical cable
- Convenient Jog dial for track selection, text entry
- Wide Bit Stream technology
- 20-Bit Analog-to-Digital Converter
- Hybrid Pulse D/A Converter
- Digital record level
- Optical digital input
- Remote Commander remote control



### MDS-S40 MINIDISC RECORDER

- ▲ 11-inch width matches most Sony MHC Series mini shelf systems
- Convenient Jog dial for track selection, text entry
- Wide Bit Stream technology
- 20-Bit Analog-to-Digital Converter
- Hybrid Pulse D/A Converter
- Digital record level
- Remote Commander remote control



**24-BIT ANALOG-TO-DIGITAL CONVERTER**

Establishes high precision in the record mode, with far wider dynamic range than conventional 16-bit circuitry. Forms the input for Sony's Wide Bit Stream technology.

**25-STEP PROGRAMMING** Like CD, MiniDisc gives you split-second access to any song. So MD is perfect for track programming, the feature that lets you listen to your music in your sequence.

**A-B ERASE FUNCTION** MiniDisc enables you to continue shaping your music, even after it's recorded. A-B erase is ideal for deleting interruptions like radio commercials.

**ALUMINUM FRONT PANEL** A precaution to stop the propagation of mechanical resonance and air-borne vibration.

**ATRAC DSP TYPE "R"** Sony's improved version of the Adaptive Transform Acoustic Coding (ATRAC) processing at the heart of MiniDisc audio technology. Error evaluation, a second stage of bit re-allocation and superior processing accuracy yield smoother, more clearly delineated sound.

**AUTO CUT** Places deck in Record/Pause mode after recording 30 seconds of silence.

**CD TEXT AND CUSTOM FILE TEXT TRANSFER**

If you have a Sony CD Player with Custom File memory and the Control A-1 II interface, you're in luck. The disc names and track names you've entered for your CDs don't need to be re-entered when you edit to MiniDisc!

**CD SYNCHRO RECORD** Simplifies making tapes from compatible Sony CD Players by releasing from Record/Pause mode when the CD Player goes into Play.

**CENTER-MOUNT MECHANISM** Placing the MD transport in the center reduces chassis vibration. The mechanism itself acts as a barrier to minimize internal radiation and hum.

**CONTROL A-1 II INTERFACE** A communications protocol between audio components with Control A-1 II. Allows for commands and data to be transferred through Sony components linked together. It also enables automatic transfer of CD Text and Custom File information as you record to MD.

**DATE/TIME STAMP** Saves the date and time of recording as subcode data on the disc. The stamp is available for display during playback. It's a handy reference, particularly for live and off-the-air recordings.

**DIGITAL INPUTS AND OUTPUTS** Enable digital-to-digital connection from a Compact Disc player and to a DSP receiver or preamplifier. Connections are made without repeated A/D and D/A conversions. There's also no noise pick-up. No RF interference. No effects of cable capacitance.

**DIGITAL PEAK METERS** Display recording levels with ultra precision.

**HEADPHONE OUTPUT** For private listening, supplied with convenient volume control.

**HIGH-SPEED CD-TO-MD DUBBING** Sony's integrated CD player/MD recorders can operate at 4X real time speed.<sup>2</sup> So you can record an hour of music in just 15 minutes!

**HYBRID PULSE D/A CONVERTER** Hybrid design places the digital filter and D/A converter on a single integrated circuit for shorter signal paths, reduced interference. Minimizes zero-cross distortion, considered by researchers to be the most audible distortion in digital playback. The result is remarkably smooth, open sound – even during delicate quiet passages.

**INSULATOR FEET** These protect the recorder from shelf-borne vibration. Insulator feet reduce the harmful effects of resonance on analog circuitry and the laser servo. Off-center screw holes help to diffuse modes of vibration.

**JOG DIAL** Turn this convenient control for split-second track access and also for text entry.

**NON-LINEAR RECORDING AND PLAYBACK**

Like a CD, MiniDisc allows instant playback at the push of a button. You can also record without first searching for the end of the recorded section – the deck automatically finds blank spots on the disc and records onto them without interruption.

**OVERWRITE FUNCTION** Lets you record over an existing track without erasing the entire disc.

**PC EDITING CONTROL** Enables you to drag and drop songs from CD to MD, perform point-and-click editing and type in titles. Available for selected recorders with the optional PCLK-MD2 MD Editor2 Package. Principal feature of the MDS-PC2.

**PC KEYBOARD INPUT** The easy way to enter disc names, artist names and song titles. Enables you to plug in a standard PC-compatible keyboard and type.

**PITCH CONTROL** If you play a musical instrument, listen up. This control enables you to "tune" MiniDisc playback sharper or flatter, to match your instrument!

**PLAY MODES** Sony gives you many ways to play your discs, including Continuous Play of a Disc, Shuffle Play and Programming of favorite songs in your own selected sequence.

**POWERFUL EDITING FEATURES** MiniDisc enables you to edit your music even after you've recorded it. Modes include Erase One, Erase All, Combine, Divide, Un-do, Record from end, Record Over, and Move tracks. By the way, a MiniDisc can be recorded and re-recorded over one million times.

**R-CORE POWER TRANSFORMER** All hi-fi components use power transformers that can potentially radiate audible hum into the signal. The R-core design is an expensive, refined approach that vastly reduces radiated hum.

**REMOTE COMMANDER REMOTE CONTROL** A handy unit with 25-key Direct Access™ track selection, title input and power on/off.

**REPEAT MODES** Repeat a single track or an entire disc, for the continuous music of your choice.

**SAMPLING RATE CONVERTER** MiniDisc records at 44.1 kHz. But many of these decks also accept digital-to-digital inputs at the DAT sampling rates of 32 and 48 kHz.

**SCALE FACTOR EDIT** Enables you to adjust the volume of each track after you've recorded it, without disturbing the music itself. Great for compilation MDs, discs recorded at different times and discs recorded from different sources.

**SHOCK RESISTANT MEMORY (SRM)** Buffer holds up to 6 seconds of music for uninterrupted playback, even when accidentally bumped.

**SMART SPACE** Provides a uniform three-second spacing between all songs.

**S-TACT** Short for Synchronous Time Accuracy Controller. This Sony circuit isolates the clock generator from the digital filter's noise shaper, reducing digital jitter – a potential source of distortion.

**TEXT DISPLAY** Shows the disc names, track names and artist names stored on both recordable and prerecorded MiniDiscs. Display scrolls to accommodate even long pieces of text.

**TEXT ENTRY** You'll never need to guess what's on a MiniDisc. There's storage space for hundreds of characters of text. So you can store disc names, track names and artist names.

**TIME MACHINE RECORDING** Here's another phenomenal application of the MiniDisc recorder's buffer memory. This system actually captures music up to disc six full seconds before you press the Record button. Perfect for recording live events or radio broadcasts.

**TIMER STANDBY** Recording and playback with compatible Sony MHC Series Mini shelf systems.

**UN-DO EDITING** The convenience that lets you reverse your last Move, Erase or Combine edit. Un-do remains available until you eject the disc or record over your work.

**VARIABLE COEFFICIENT 24 DIGITAL FILTER** A system that actually lets you choose the basic operating principles of the filter, to suit the music. Operates at 24-bit word length, for superlative precision.

**WIDE BIT STREAM** This technology maintains 20-bit precision through the recording process, for clearer reproduction of delicate, low-level music.

## TECHNOLOGIES

	MDX-D5C	MDX-D4	MDS-JB940	MDS-JE440	MD BUNDLE 6	MDS-S40	MDS-PC2
Wide Bit Stream technology	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ATrac circuitry	V. 4.5	V. 4.5	Type R	Type R	Type R	V. 4.5	V. 4.5
8x Digital filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Variable Coefficient 24-Bit digital filter	—	—	Yes	—	—	—	—
S-TACT circuitry	—	—	Yes	—	—	—	—
D/A converter	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse	Hybrid Pulse
A/D converter	20-bit	20-bit	24-bit	24-bit	24-bit	20-bit	20-bit
Transformer	EI Core	EI Core	R-Core	EI Core	EI Core	EI Core	EI Core
Off-center insulator feet	Yes	Yes	Yes	Yes	Yes	—	—
Aluminum front panel	—	—	Yes	—	—	—	—
Gold-plated inputs/outputs	—	Yes	Yes	Yes	Yes	—	—
Slanted circuit board	—	—	Yes	—	—	—	—
Sampling rate converter	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## FEATURES

Integrated CD player	5-CD changer	Yes	—	—	—	—	—
High-speed CD-to-MD dubbing	4X speed	4X speed	—	—	—	—	—
Bundled portable MD player	—	—	—	—	MZ-E33	—	—
Display (lines)	2	2	2	1	1	1	1
PC editing software CD-ROM	—	—	—	—	—	—	Yes
PC Link kit	—	—	—	—	—	—	Yes
PC keyboard input	Yes	—	Yes	—	—	—	—
Scale Factor Edit	Yes	Yes	Yes	—	—	—	—
Control A-1 II	—	—	Yes	—	—	—	Yes
Jog Dial	Yes	Yes	Yes	Yes	Yes	Yes	No
Music Scan	—	—	Yes	Yes	Yes	Yes	Yes
Shuffle Play/Program Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Repeat Play (I/All/A-B)	I/All	I/All	Yes	Yes	Yes	Yes	Yes
Name Disc/Track	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time Machine Recording	6 sec.	6 sec.	6 sec.	6 sec.	6 sec.	6 sec.	6 sec.
Smart Space Recording	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Cut	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CD Synchro Recording	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recording Date/Time Stamp	—	—	Yes	—	—	—	Yes
Timer Standby	—	—	Yes	—	Yes	—	—
Analog record Volume	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital record volume	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital peak meters	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Playback pitch control	Yes	Yes	Yes	—	—	—	—
Remote Commander unit	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## EDITING FEATURES

Combine tracks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Divide tracks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Move tracks	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A-B erase	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Erase track	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Erase disc	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Un-Do last edit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rehearsal	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## SPECIFICATIONS

Stereo record/play time: SP mode	80 min.	80 min.	80 min.	80 min.	80 min.	80 min.	80 min.
Sampling frequency	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz	44.1 kHz
Frequency response	5-20,000 Hz, ±0.5 dB	5-20,000 Hz, ±0.5 dB	5-20,000 Hz, ±0.3 dB	5-20,000 Hz, ±0.3 dB	5-20,000 Hz, ±0.3 dB	5-20,000 Hz, ±0.3 dB	5-20,000 Hz, ±0.3 dB
Dynamic range (playback)	>96 dB	>96 dB	>98 dB	>94 dB	>94 dB	>94 dB	>94 dB
S/N ratio (playback)	>98 dB	>98 dB	>100 dB	>94 dB	>94 dB	>94 dB	>94 dB
Harmonic distortion (playback)	<0.005%	<0.005%	<0.003%	<0.01%	<0.01%	<0.01%	<0.01%
Wow & flutter	Unmeasurable	Unmeasurable	Unmeasurable	Unmeasurable	Unmeasurable	Unmeasurable	Unmeasurable
Line input lacks	Phono	Phono	Phono	Phono	Phono	Phono	Phono
Optical inputs	1	1	2	1	1	1	2
Coaxial input	—	—	1	—	—	—	—
Analog	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Optical output	—	—	1	—	—	—	1
Coaxial output	—	—	Yes	—	—	—	—
Headphone output jack	Yes	Yes	Yes	—	—	—	Mini
Power consumption	18 w	18 w	18 w	15 w	15 w	15 w	14 w
Width	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	17" (430 mm)	11" (280 mm)	6" (150 mm)
Height	4-3/4" (120 mm)	4-3/4" (120 mm)	4-1/4" (108 mm)	3-3/4" (95 mm)	3-3/4" (95 mm)	3-1/2" (90 mm)	2-5/8" (65 mm)
Depth	14-3/4" (375 mm)	11-1/2" (290 mm)	11-1/4" (284 mm)	11-1/2" (290 mm)	11" (290 mm)	11-1/4" (283 mm)	11" (275 mm)
Weight	13 lbs, 3 oz (6.0 kg)	11 lbs, 7 oz (5.2 kg)	10 lbs, 12 oz (4.9 kg)	7 lbs, 11 oz (3.5 kg)	7 lbs, 12 oz (3.5 kg)	6 lbs, 10 oz (3.0 kg)	4 lbs, 7 oz (2.0 kg)

## DTC-ZE700

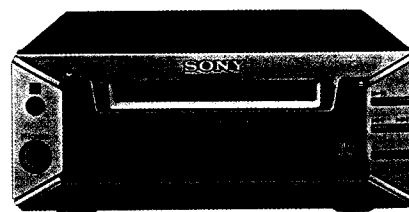
Frequency response, ±0.5 dB	
SP:	2-22,000 Hz
LP:	2-14,500 Hz
Signal-to-noise ratio	>90 dB
Dynamic range	>90 dB
Wow and flutter	Unmeasurable
Sampling rates	48, 44.1, 32 kHz
Number of motors	3 Direct Drive
Number of heads	2 Record/Play
Search speed	200x, 400x, Normal
Encoding	Super Bit Mapping Circuit

## DTC-ZE700

De-emphasis	Auto On/Off
Inputs	
Line	500 mV, 47 $\Omega$
Optical	Square
Coaxial	Yes
Outputs	
Line	2 Volts rms, 10 k $\Omega$ load
Headphones	1.2 mW variable, 32 $\Omega$ load
Optical	Square
Dimensions (W x H x D)	17 x 4-1/4 x 12-7/8" (430 x 110 x 325 mm)
Weight	11 lbs (5 kg)

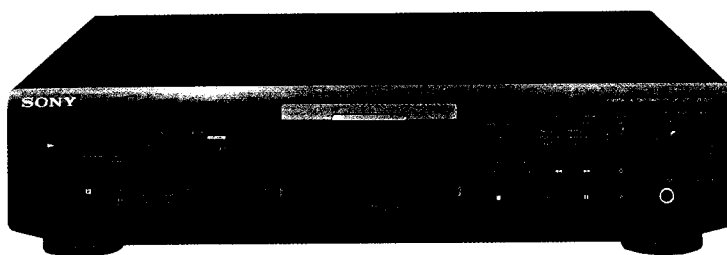
## MDS-PC2 MINIDISC RECORDER

- ▲ 6-inch MiniDisc recorder
- ▲ "MD Editor 2" PC link software CD ROM (included)
- ▲ Control A-1 II link kit
- ATRAC 4.5
- 20-bit A/D current pulse D/A converter
- Sampling rate converter
- Digital record level control
- Music synchro record
- Program play
- Music scan, shuffle play, repeat (1/ALL/A-B)
- Title input
- 2 optical inputs/1 optical
- Remote Commander remote control



## DTC-ZE700 DIGITAL AUDIO TAPE RECORDER

- Super Bit Mapping® technology
- Advanced pulse D/A converter
- SCORE digital filter
- Anti-resonant Mid-Ship drive
- Sony 3 Motor Mechanism
- Optical and coaxial digital inputs
- Optical digital output
- 44.1 kHz analog recording capability
- Quick Loading
- Long Record/Play modes<sup>1</sup>
- 200/400 times high speed search
- 50 second rewind time
- Automatic ID subcodes
- Manual ID subcodes
- Auto Renumber
- Blank Search
- Two repeat modes
- 2-way time display
- 23 segment peak level meters
- Digital peak margin display
- Message function
- Informative Dot matrix display
- Serial Copy Management System (SCMS) Encoding
- Remote Commander wireless remote control



**FEATURES AND  
SPECIFICATIONS SUBJECT  
TO CHANGE WITHOUT  
NOTICE**

<sup>1</sup> MiniDisc products sold by manufacturer-authorized outlets incorporate the Serial Copy Management System, which will not prevent you from making a direct digital-to-digital copy from a digital source, but from such copies will prevent a second direct digital-to-digital copy from being made.

<sup>2</sup> Compact Disc condition may hinder high-speed dubbing capability.

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**SONY**

Sony Electronics Inc.  
1 Sony Drive, Park Ridge, NJ 07656  
<http://www.sony.com/digitalrecorders>

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**SONY**



2000 HOME AUDIO

# Home Theater Packages

*Transform your television*



SONY HOME ENTERTAINMENT UNIVERSE

THERE'S A  
NEW WORLD  
WAITING  
TO BE HEARD

New video sources like DVD, digital satellite TV and High Definition TV are transforming entertainment. And sound is a big part of the excitement. To hear it all, just add a Sony Home Theater Package to your television. Each package combines a Sony A/V receiver – equipped with Dolby Digital™

and/or Dolby® Pro Logic® decoding – and a complete set of speakers: Front, Center, Rear and Subwoofer. It's everything you need to hear everything in home entertainment!

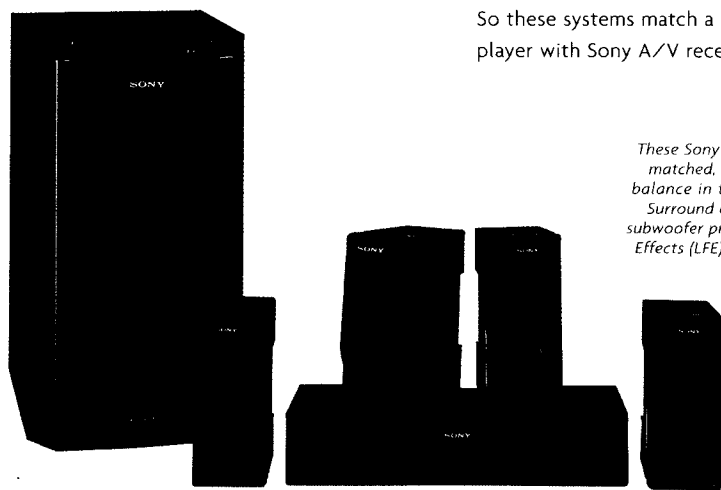
**HOME THEATER THE EASY WAY** Sony has devised an ultra-simple way to acquire true Home Theater. In our Packages, we've picked out the receiver and all the speakers – Front, Center, Rear and Subwoofer. It's like having a highly qualified Sony engineer at your side when you go shopping. The speakers are matched to the receivers. Matched speakers maintain spectral balance and stable imaging, no matter where the sound comes from – left, right or center, front or rear.

**EASY TO INSTALL** The system connects in just minutes. A specially prepared guide walks you through the setup. All the speaker wires are pre-stripped. All the speaker terminals are spring-loaded. Which means you won't need so much as a screwdriver!

**COMPLETE DVD SOLUTIONS** If you haven't yet bought your DVD player, the Sony HT-5000D and HT-1200D are natural choices. After all, Sony contributed key technologies to the invention of DVD. And Sony is the leader in DVD players. So these systems match a terrific Sony DVD player with Sony A/V receiver and speakers,

for an all-in-one approach to home theater. The HT-5000D even includes a five disc DVD carousel. The DVD player includes Sony's exclusive SmoothScan™ and SmoothSlow features for spectacular special effects. Sony's Precision Drive System helps get the best out of all your discs. And of course, the DVD player also performs beautifully with your music CDs!

**DOLBY DIGITAL AND DTS™ DECODING** DVD has it. Some Digital Satellite System broadcasts have it. And the new High Definition TV broadcasting has it, too. It's Dolby Digital surround sound. And it's fundamentally unlike anything that's come before. First it delivers fully digital sound. Then it keeps all channels completely separate (discrete) throughout the process. Third it encodes separate Left-Surround and Right-Surround channels. Finally, there's a ".1" channel just for Low-Frequency Effects (LFE). This is the cutting edge of surround sound. And because some DVDs use an alternate 5.1-channel audio system – dts encoding – Sony also provides dts processing.

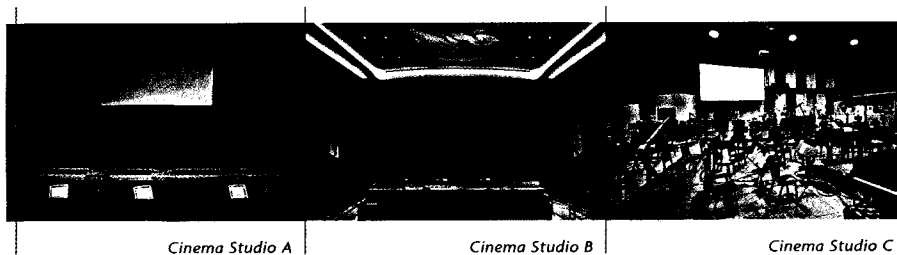


**SA-VE230**  
These Sony speakers are sonically matched, for consistent spectral balance in the Front, Center and Surround channels. The supplied subwoofer provides Low Frequency Effects (LFE) for the entire system.

*These Home Theater Packages are key components of the Sony Home Entertainment Universe. Sony delivers spectacular surround sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!*



SONY HOME ENTERTAINMENT UNIVERSE



*These three dubbing stages are famous for their acoustic excellence. The HT-5000D and DDW820 Cinema Studio modes bring these theaters home!*

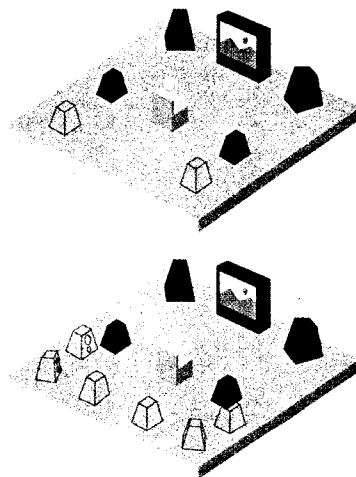
Sony incorporates the controls and adjustments that so many others leave out. So you can direct the bass to match your specific speakers. And you can adjust the delay to match your specific room. Listen to Dolby Digital surround sound on a Sony Home Theater System and home entertainment comes alive. Movie sound tracks are more dynamic. Surround sound effects are bigger and more convincing. Bass is stronger and closer to the movie director's original intent. It's a new world of home entertainment. And nobody takes you there like Sony.

#### DOLBY DIGITAL "READY" WITH SURROUND

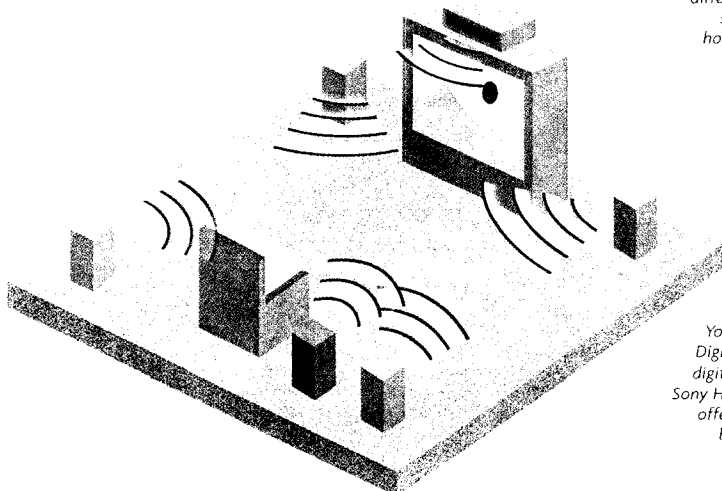
**CONTROL** The HT-DW620 accommodates Dolby Digital sound with 5.1-channel inputs. So you can connect a DVD player that has its own Dolby Digital decoder (such as the Sony DVP-C670D, C600D, S570D, S560D, S550D or S530D) and enjoy the full benefits of this amazing entertainment experience. Most receivers with 5.1-channel inputs pass the 5.1 signals through to the amplifier and out to the speakers, without surround sound control. But Sony demanded more. That's why our packages enable you to adjust Delay Time, Effect Level and Center/Rear Levels. You get comprehensive control of Dolby Digital sound!

#### ONLY SONY OFFERS THE DIGITAL CINEMA

**SOUND™ SYSTEM** What is the ultimate reference for movie theater sound? It's the Hollywood dubbing stage – where directors go to evaluate and approve their sound tracks. Now precisely that sound has been brought home, courtesy of Sony's Digital Cinema Sound system. These digitally recreated acoustic environments are based on the actual measurements we made at



*Virtual 3D modes help compensate for the vast difference between theater speaker placement and home speaker placement.*



*You're surrounded. Dolby Digital sound is a discrete, digital, six-channel system. Sony Home Theater packages offer the six speakers that bring this sound to life.*

acclaimed Hollywood dubbing stages. By reproducing the precise reverberation qualities of these venues, Sony HT-5000D and HT-DDW820 make your movies sound exactly the way they were meant to be heard!

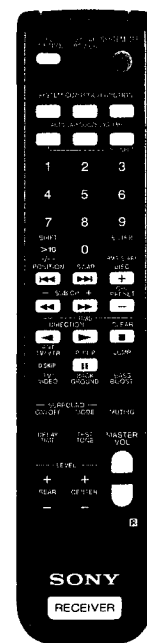
**VIRTUAL 3D PROCESSING** When it comes to rear speakers, there's a huge difference between the theater and the home. Theaters use an array of many speakers. Most homes use only two. Theaters use acoustically correct speaker locations. Most homes can't. Theaters employ special delay circuits. Few homes can match them. To bridge the gap, Sony's Digital Cinema Sound system offers Virtual 3D Processing.

**24-BIT DSP** Dolby Digital, dts® and Dolby Pro Logic decoding are handled by a 24-bit DSP engine of superlative performance. The same 24-bit processing also generates Sony's spectacular Digital Cinema Sound effects.

#### PRE-PROGRAMMED UNIVERSAL REMOTE

Sony knows that you'll be using your home theater system with video equipment. That's why the remote controls of three of our systems which are pre-programmed to operate not only televisions, but also Digital Satellite System receivers and DVD players – including many non-Sony brands of A/V equipment!¹

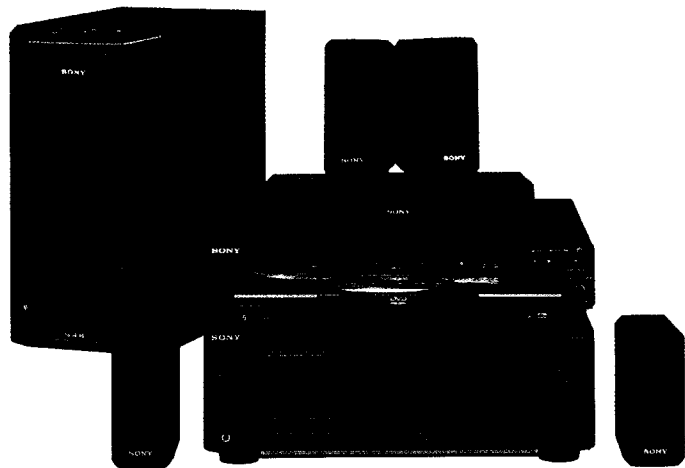
*Stop fumbling around in the dark: Sony's glow-key remote control.*



## HT-5000D 5 DISC DVD HOME THEATER PACKAGE

Complete 5 Disc DVD Dolby Digital home theater system  
450 watts of total system power  
Supplied Sony 5-disc DVD/CD player  
Built-in 24-Bit Dolby Digital and dts decoding  
Digital Signal Processing with 11 Acoustic Environments  
Virtual 3D Modes  
Dolby Pro Logic receiver  
Digital Cinema Sound Studio A, B, C  
Custom parental control (50 disc)  
SmoothScan and SmoothSlow special effects modes  
Precision Drive System  
Four satellite speakers for Front and Surround  
with 2" x 3-1/2" full-range drivers  
Center Speaker with two 2" x 3-1/2" full range drivers  
Active Subwoofer with 50 watts x 1, into 8 ohms from  
20 Hz - 200 Hz at 0.8% THD and 6-1/4" long-throw woofer

- Stereo Mode: 80 watts per channel x 2, 8 ohms, 20 – 20,000 Hz, 0.09% THD
- Surround Mode: 80 watts per channel x 5, 8 ohms, 1,000 Hz, 0.7% THD
- ▲ 1 Optical, 1 coaxial digital input
- A/V UniCommander® glow-key remote control
- Sony Home Entertainment Universe packaging and Getting Connected Guide



## HT-1200D DVD HOME THEATER PACKAGE

Complete DVD Dolby Digital home theater system  
550 watts of total system power  
Supplied Sony DVD/CD player  
Built-in Dolby Digital decoding  
Digital Signal Processing with 4 Acoustic Environments  
Virtual Dolby Surround Sound  
Dolby Pro Logic receiver  
Custom parental control (50 disc)  
SmoothScan and SmoothSlow special effects modes  
Precision Drive System  
Dolby Digital "ready" 5.1-channel inputs with  
surround control  
Digital Cinema Sound studio mode  
Four satellite speakers for Front and Surround with  
2" x 3-1/2" full-range drivers  
Center Speaker with two 2" x 3-1/2" full range drivers

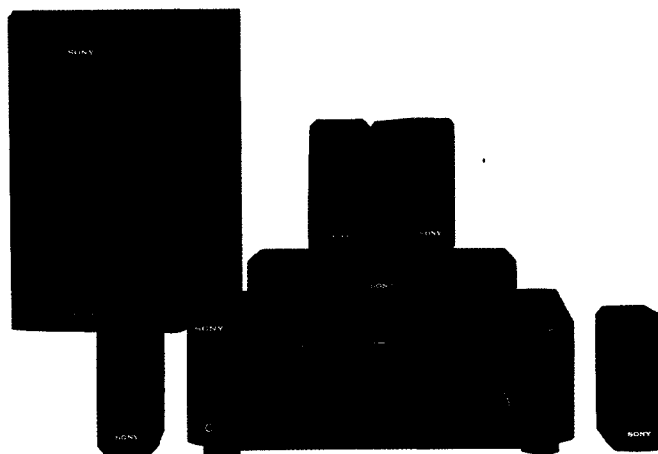
- Active Subwoofer with 50 watts x 1, into 8 ohms from 20 Hz - 200 Hz at 0.8% THD and 6-1/4" long-throw woofer
- Stereo Mode: 100 watts per channel x 2, 8 ohms, 20 – 20,000 Hz, 0.09% THD
- Surround Mode: 100 watts per channel x 5, 8 ohms, 1,000 Hz, 0.7% THD
- A/V UniCommander remote is preprogrammed for Digital Satellite System receivers and DVD players
- Sony Home Entertainment Universe packaging and Getting Connected Guide





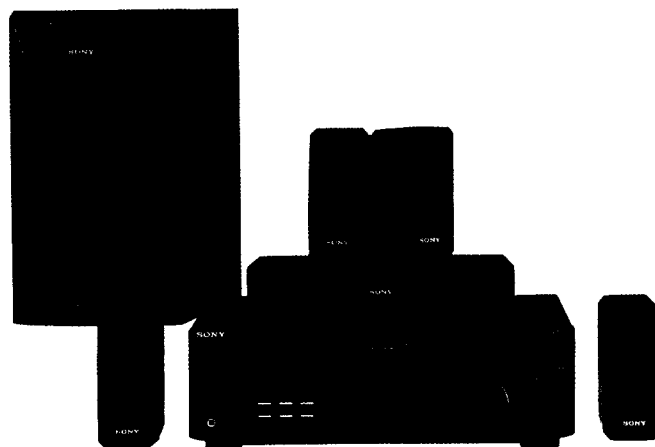
### HT-DDW820 HOME THEATER PACKAGE

- 550 watts of total system power
- ▲ Built-in 24-Bit Dolby Digital and dts decoding
- ▲ Digital Cinema Sound Studio A, B, C
- ▲ Virtual 3D modes
- ▲ Digital Signal Processing with 11 Acoustic Environments
- Dolby Pro Logic receiver
- Four Satellite speakers for Front and Surround with 2" x 3-1/2" full-range drivers
- Center Speaker with two 2" x 3-1/2" full range drivers
- Active Subwoofer with 50 watts x 1, into 8 ohms from 20 Hz - 200 Hz at 0.8% THD and 6-1/4" long-throw woofer
- Stereo Mode: 100 watts per channel x 2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- Surround Mode: 100 watts per channel x 5, 8 ohms, 1,000 Hz, 0.7% THD
- ▲ 2 Optical, 1 coaxial digital input
- ▲ Control A1 II interface
- A/V UniCommander remote is preprogrammed for Digital Satellite System receivers and DVD players
- Sony Home Entertainment Universe packaging and Getting Connected Guide



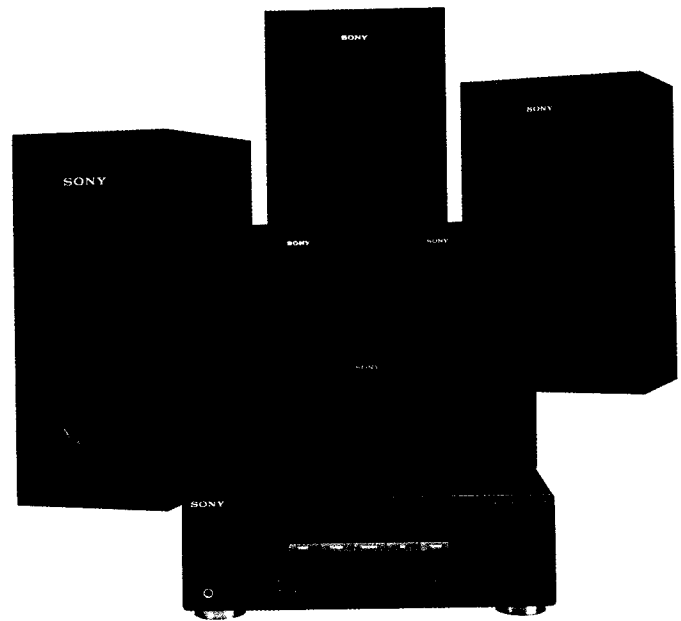
### HT-DW620 HOME THEATER PACKAGE

- ▲ 550 watts of total system power
- ▲ Dolby Digital "ready" 5.1 channel inputs with surround control
- ▲ Digital Cinema Sound Studio Mode
- ▲ Virtual Dolby Surround Sound
- ▲ Digital Signal Processing with 4 Acoustic Environments
- Dolby Pro Logic receiver
- Four Satellite speakers for Front and Surround with 2" x 3-1/2" full-range drivers
- Center Speaker with two 2" x 3-1/2" full range drivers
- ▲ Active Subwoofer with 50 watts x 1, into 8 ohms from 20 Hz - 200 Hz at 0.8% THD and 6-1/4" long-throw woofer
- ▲ Stereo Mode: 100 watts per channel x 2, 8 ohms, 20 - 20,000 Hz, 0.09% THD
- ▲ Surround Mode: 100 watts per channel x 5, 8 ohms, 1,000 Hz, 0.7% THD
- ▲ A/V UniCommander remote is preprogrammed for Digital Satellite System receivers and DVD players
- Sony Home Entertainment Universe packaging and Getting Connected Guide



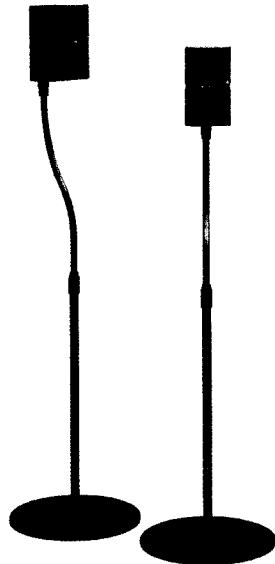
## HT-520 HOME THEATER PACKAGE

- 240 watts of total system power
- Dolby Pro Logic receiver
- 2-Way, magnetically shielded Front bookshelf Speakers with 6-1/4" woofers and 3/4" tweeter
- Center speaker with two 4" woofers and 3/4" Balanced Dome tweeter
- Surround speakers with 4" full-range driver
- Passive subwoofer with two 5" drivers; 100 watts power handling
- Stereo Mode: 60 watts per channel x 2, 8 ohms, 20 – 20,000 Hz, 0.3% THD
- Surround Mode: 60 watts per channel x 4, 8 ohms, 1,000 Hz, 0.7% THD
- A/V UniCommander glow-key remote control
- Receiver size and design matches 14" VCRs
- Sony Home Entertainment Universe packaging and Getting Connected Guide



## WS-FV10 FLOOR STANDS

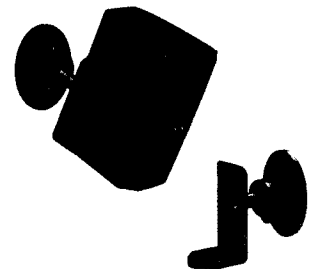
- For use with SS-V230 (HT-5000D, 1200D, DDW820, DW620) satellite speakers
- Adjustable height
- Hollow tubes hide speaker cable
- Stand head designed to conceal wire connection
- Two stands per package



Stands shown with SA-VE50S satellite speakers

## WS-WV10 WALL MOUNTS

- For use with SS-V230 (HT5000D, 1200D, DDW820, DW620) satellite speakers
- Enable flexible placement on wall
- Two mounts per package



Mount shown with SA-VE50S satellite speaker

<b>A/V RECEIVER</b>	<b>HT-5000D STR-DE445</b>	<b>HT-1200D STR-DE345</b>	<b>HT-DDW820 STR-SE501</b>	<b>HT-DW620 STR-DE345</b>	<b>HT-520 STR-V220</b>
Stereo Mode Power Output, both channels driven into 8 ohms, 20 -- 20,000 Hz	80 w x 2	100 w x 2	100 w x 2	100 w x 2	60 w x 2
THD at rated output	0.09%	0.09%	0.09%	0.09%	0.3%
Surround Mode Power Output, all channels driven, 8 ohms, 1000 Hz, 0.7% THD	80 w x 5	100 w x 5	100 w x 5	100 w x 5	60 w x 4
Audio Inputs/Outputs (excluding Tuner)	3/1	2/1	3/1	2/1	2/1
A/V Inputs/Outputs	3/1	2/1	3/1	2/1	2/1
S-Video Input	—	—	1	—	—
Optical Digital Input	1	—	2	—	—
Coaxial Digital Input	1	—	1	—	—
Dolby Digital/dts decoding	Yes/Yes	—/—	Yes/Yes	—/—	—/—
5.1-Channel Input	Yes	Yes w/Video In	Yes	Yes w/Video In	—
Dolby Pro Logic decoding	Yes	Yes	Yes	Yes	Yes
Control AI II	—	—	Yes	—	—
Sound Field Link	Yes	Yes	Yes	Yes	—
Subwoofer Out/Mix Out	Yes/1	Yes/1	Yes/1	Yes/1	Yes/1
DSP	24-bit (Full)	—	24-bit (Full)	—	—
Remote Commander* unit	Unified	Pre-programmed	Pre-programmed	Pre-programmed	Unified
Digital Satellite System/DVD Control	—	Yes (on RM)	Yes (on RM)	Yes (on RM)	—
DSP Programs: Cinema/Virtual 3D/Music/AFD	4/2/4/1	2/1/1/—	4/2/4/1	2/1/1/—	2/—/1/—
Cinema Studio modes	A/B/C	Yes	A/B/C	Yes	—
Virtual 3D Modes	Yes	—	Yes	—	—
Effect Level	Yes	Yes (surr. effect)	Yes	Yes (surr. effect)	Yes (surr. effect)
Balance (Front/Rear)	Yes/Yes	Yes/—	Yes/Yes	Yes/—	—/—
Level (Center/Rear/Woofer)	Y/Y/Y	Y/Y/—	Y/Y/Y	Y/Y/—	Y/Y/—
Surround Control on 5.1 Ch. In	—	Yes	—	Yes	—
Virtual Surround	DCS	Virtual Dolby	DCS	Virtual Dolby	—
Rear Channel Stereo	Yes	Yes	Yes	Yes	—
Headphone Out	Yes	Yes	Yes	Yes	Yes
Speaker Selector	A,B,A+B	A	A,B,A+B	A	A
<b>TUNER</b>	<b>STR-DE445</b>	<b>STR-DE345</b>	<b>STR-SE501</b>	<b>STR-DE345</b>	<b>STR-V220</b>
Station Presets	30	30	30	30	30
Station Memo™ Display	Yes	—	Yes	—	—
Auto Tuning	Yes	Yes	Yes	Yes	Yes
Direct Tuning	Yes	Yes	Yes	Yes	Yes
Dimensions (W x H x D)	17 x 6-1/4 x 12" (430 x 157.5 x 303 mm)	17 x 5-3/4 x 12" (430 x 145 x 304 mm)	17 x 6-1/4 x 12" (430 x 157.5 x 303 mm)	17 x 5-3/4 x 12" (430 x 145 x 304 mm)	14 x 4-3/4 x 12-3/4" (355 x 120 x 325 mm)
Weight	N/A	16 lbs, 1 oz (7.3 kg)	N/A	16 lbs, 1 oz (7.3 kg)	12 lbs, 9 oz (5.7 kg)
<b>DVD/CD PLAYER</b>	<b>DVP-C660</b>	<b>DVP-S560D</b>	—	—	—
Dolby Digital/dts system	Digital Pass/dts Digital Pass	Built-in/dts Digital Pass	—	—	—
SmoothScan™ special effects	Yes	Yes	—	—	—
Precision Drive System	Yes	Yes	—	—	—
Dimensions (W x H x D)	17 x 2-3/4 x 10-1/4" (430 x 69 x 260 mm)	17 x 2-3/4 x 10" (430 x 69 x 252 mm)	—	—	—
Weight	6 lbs, 3 oz (2.8 kg)	6 lbs, 3 oz (2.8 kg)	—	—	—
<b>SPEAKER PACKAGE</b>	<b>SA-VE230</b>	<b>SA-VE230</b>	<b>SA-VE230</b>	<b>SA-VE230</b>	<b>SS-FCRW120</b>
<b>FRONT SPEAKERS</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-MB115</b>
Driver Size	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	6-1/4" + 3/4" (160 mm + 20 mm)
Enclosure	Bass Reflex	Bass Reflex	Bass Reflex	Bass Reflex	Acoustic Suspension
Dimensions, each (W x H x D)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	8-5/8 x 14-1/2 x 9-1/2" (220 x 370 x 240 mm)
Weight, each	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	8 lbs, 13 oz (4.0 kg)
<b>CENTER SPEAKER</b>	<b>SS-CN230</b>	<b>SS-CN230</b>	<b>SS-CN230</b>	<b>SS-CN230</b>	<b>SS-CR195(C)</b>
Driver Size	Two 2" x 3-1/2" (Two 50 x 90 mm)	Two 2" x 3-1/2" (Two 50 x 90 mm)	Two 2" x 3-1/2" (Two 50 x 90 mm)	Two 2" x 3-1/2" (Two 50 x 90 mm)	Two 4" + 3/4" (Two 100 mm + 20 mm)
Dimensions (W x H x D)	11-7/8 x 2-3/4 x 5" (301 x 70 x 126 mm)	11-7/8 x 2-3/4 x 5" (301 x 70 x 126 mm)	11-7/8 x 2-3/4 x 5" (301 x 70 x 126 mm)	11-7/8 x 2-3/4 x 5" (301 x 70 x 126 mm)	14 x 5-1/8 x 6-1/2" (355 x 130 x 165 mm)
Weight	2 lbs, 7 oz (1.1 kg)	2 lbs, 7 oz (1.1 kg)	2 lbs, 7 oz (1.1 kg)	2 lbs, 7 oz (1.1 kg)	4 lbs, 12 oz (2.2 kg)
<b>SURROUND SPEAKERS</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-V230</b>	<b>SS-CR195(R)</b>
Driver Size	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	2" x 3-1/2" (50 x 90 mm)	4" (100 mm)
Dimensions, each (W x H x D)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	2-3/4 x 6 x 5" (70 x 151 x 126 mm)	7 x 5-1/8 x 6-1/2" (177 x 130 x 165 mm)
Weight, each	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	1 lbs, 3 oz (550 g)	2 lbs, 10 oz (1.2 kg)
<b>SUBWOOFER</b>	<b>SA-WMS230</b>	<b>SA-WMS230</b>	<b>SA-WMS230</b>	<b>SA-WMS230</b>	<b>SS-SW1</b>
Power Output, one channel, 8 ohms, 20 -- 200 Hz, 0.8% THD	50 watts x 1	50 watts x 1	50 watts x 1	50 watts x 1	Passive, 100 watts handling
Driver Size	6-1/4" (16 cm)	6-1/4" (16 cm)	6-1/4" (16 cm)	6-1/4" (16 cm)	Two 5" (Two 130 mm)
Dimensions (W x H x D)	8 x 15-1/8 x 15-1/8" (205 x 385 x 385 mm)	8 x 15-1/8 x 15-1/8" (205 x 385 x 385 mm)	8 x 15-1/8 x 15-1/8" (205 x 385 x 385 mm)	8 x 15-1/8 x 15-1/8" (205 x 385 x 385 mm)	7-1/2 x 17 x 11-3/8" (190 x 430 x 288 mm)
Weight	23 lbs, 2 oz (10.5 kg)	23 lbs, 2 oz (10.5 kg)	23 lbs, 2 oz (10.5 kg)	23 lbs, 2 oz (10.5 kg)	15 lbs, 4 oz (7.0 kg)

**24-BIT DSP** Sony incorporates a 24-bit DSP engine for extremely precise Dolby Digital, dts and Dolby Pro Logic decoding. The processor also delivers spectacular Digital Cinema Sound effects.

**AM/FM RANDOM STATION PRESETS** Feature that stores AM and FM stations in any combination.

**A/V UNICOMMANDER SYSTEM REMOTE** Lets you operate an entire Sony audio/video home entertainment system, including CD player, audio recorder, VCR and television. The remote is also preprogrammed for Digital Satellite System receivers and DVD players.

**ACOUSTIC SUSPENSION** This classic high-fidelity speaker cabinet design offers deep, extremely accurate bass from a small enclosure.

**ACTIVE SUBWOOFER** A component that combines a specialized speaker for deep bass with a built-in amplifier to provide power. Active Subwoofers are often the secret to impressive home theater special effects sound.

**AUTO TUNING** Scans up and down the band.

**BASS REFLEX** This speaker cabinet design vastly increases bass output. You also get high Sound Pressure Levels (SPL).

**CINEMA STUDIO MODES** This Digital Cinema Sound feature recreates the precise acoustics of three movie production dubbing stages in Hollywood. You'll hear movies in the same acoustic environments the directors heard when final sound tracks were approved.

**CONTROL A1 II** Interface that enables a receiver to communicate with audio components that have the S-Link™ Control A1 II interface.

**COMPLETE SYSTEM** Each has everything you need: the receiver and a complete set of speakers – Front, Center, Rear and Subwoofer.

**DIGITAL CINEMA SOUND SYSTEM** A group of Sony exclusive developments that represent a total re-thinking of home theater sound, based on careful measurements of movie production dubbing stages in Hollywood.

**DIGITAL SIGNAL PROCESSING (DSP)** Circuit that reproduces movies and music in the appropriate setting.

**DISCRETE OUTPUT TRANSISTORS** Amplifier devices that offer high speed, high current capacity and low distortion.

**DOLBY DIGITAL AND DTS PASSTHROUGH** The DVD player in the HT-1200D system passes the Dolby Digital and dts encoded signals through to the A/V receiver, which decodes them.

**DOLBY DIGITAL DECODER BUILT-IN** Enables digital surround sound that is far more dynamic, spacious and realistic. Generates 5.1 separate channels of line-level sound for Left, Right, Center, Left Surround, Right Surround and Subwoofer. Includes coaxial and optical digital inputs for DVD.

**DOLBY DIGITAL READY** 5.1-channel inputs enable you to connect a long list of Sony DVD players with built-in Dolby Digital decoding (DVP-C670D, C600D, S570D, S560D, S550D and S530D). So you can enjoy the benefits of this amazing new technology.

**DOLBY PRO LOGIC SURROUND SOUND** The system that brings home the excitement and emotional impact of movie sound tracks. These receivers decode and amplify the surround channels already encoded in most movie videocassettes and laserdiscs, many TV dramas and sports broadcasts.

**DTS (DIGITAL THEATER SYSTEM) DECODER BUILT-IN** Enables digital surround sound that is dynamic, spacious and realistic. Generates 5.1 separate channels of line-level sound for Left, Right, Center, Left Surround, Right Surround and Subwoofer.

**DVD PLAYER** Perhaps the most exciting addition you can make to your video system. Offers studio-quality digital pictures, CD quality digital sound and your choice of over 4,000 movies and concert videos. DVD is also the best reason to buy a Sony home theater package.

**FREQUENCY SYNTHESIS** System that tunes AM/FM stations with maximum accuracy, minimum drift. Always tunes to the center of the broadcast channel for minimum distortion.

**GETTING CONNECTED GUIDE** This helpful guide is specifically created to help even the A/V beginner off to a fast start when connecting the system.

**GLOW KEY REMOTE** Lets you tune channels, adjust volume and more – without turning on lights. During the day, the phosphorescent keys absorb energy from ambient light. At night, the keys glow.

**HEADPHONE JACK** For private listening.

**MAGNETIC SHIELDING** Loudspeakers incorporate magnets that can distort your TV picture, causing pictures to bend and colors to bleed. Sony's Front and Center speakers cancel out magnetic fields, for minimum interference.

**MIX OUTPUT FOR SUBWOOFER** Mixes information from left, center and right channels.

**MUTING** Switch that lowers the output by 15 dB for telephone calls and other temporary interruptions. Enables you to resume listening at your previous level at the touch of a button.

**OMNI-DIRECTIONAL BASS** The human ear can't sense the directional source of bass below 200 Hz. Because bass seems to come from everywhere, it's called "omni-directional." That's how one subwoofer can handle the deep bass for both left and right channels.

**PRECISION DRIVE SYSTEM** A Sony DVD player refinement that combines Active Tilt Servo, Dynamic Focus Pickup and a DSP Servo LSI to extract the best from CDs and DVDs.

**PRE-STRIPPED SPEAKER CABLE** There's no need to reach for wire strippers, scissors or knives to strip off insulation. And with convenient push-terminals all the way around, you won't even need a screwdriver!

**SMOOTHSCAN AND SMOOTHSLOW SPECIAL EFFECTS** Some DVD players present an awkward, jerky picture in special effects modes. Sony SmoothScan and SmoothSlow modes overcome this with powerful digital video processing.

**STATION MEMO™ TUNING** Enables you to store names for your preset radio stations, such as ROCK, CLASSICAL, NEWS or JAZZ.

**SUPER ACOUSTICALLY LOADED** Sony's patented subwoofer design provides bass all the way down to the lowest musical frequencies (20 Hz) from a compact cabinet.

**SURROUND CONTROL FOR 5.1 CHANNEL INPUTS** Some products give up surround control when used with the 5.1-channel inputs. Not the Sony HT-DW620. You retain comprehensive control.

**VARIABLE DELAY TIME** Adjusts the surround sound to match your listening room and speaker setup. Synchronizes the arrival of sound from Front, Center and Rear speakers, for Dolby Pro Logic reproduction.

**VIRTUAL 3D PROCESSING** Another Sony Digital Cinema Sound exclusive, Virtual 3D overcomes limitations in home rear speakers, as opposed to rear speakers in the movie theater.

**FEATURES AND  
SPECIFICATIONS SUBJECT  
TO CHANGE WITHOUT  
NOTICE**

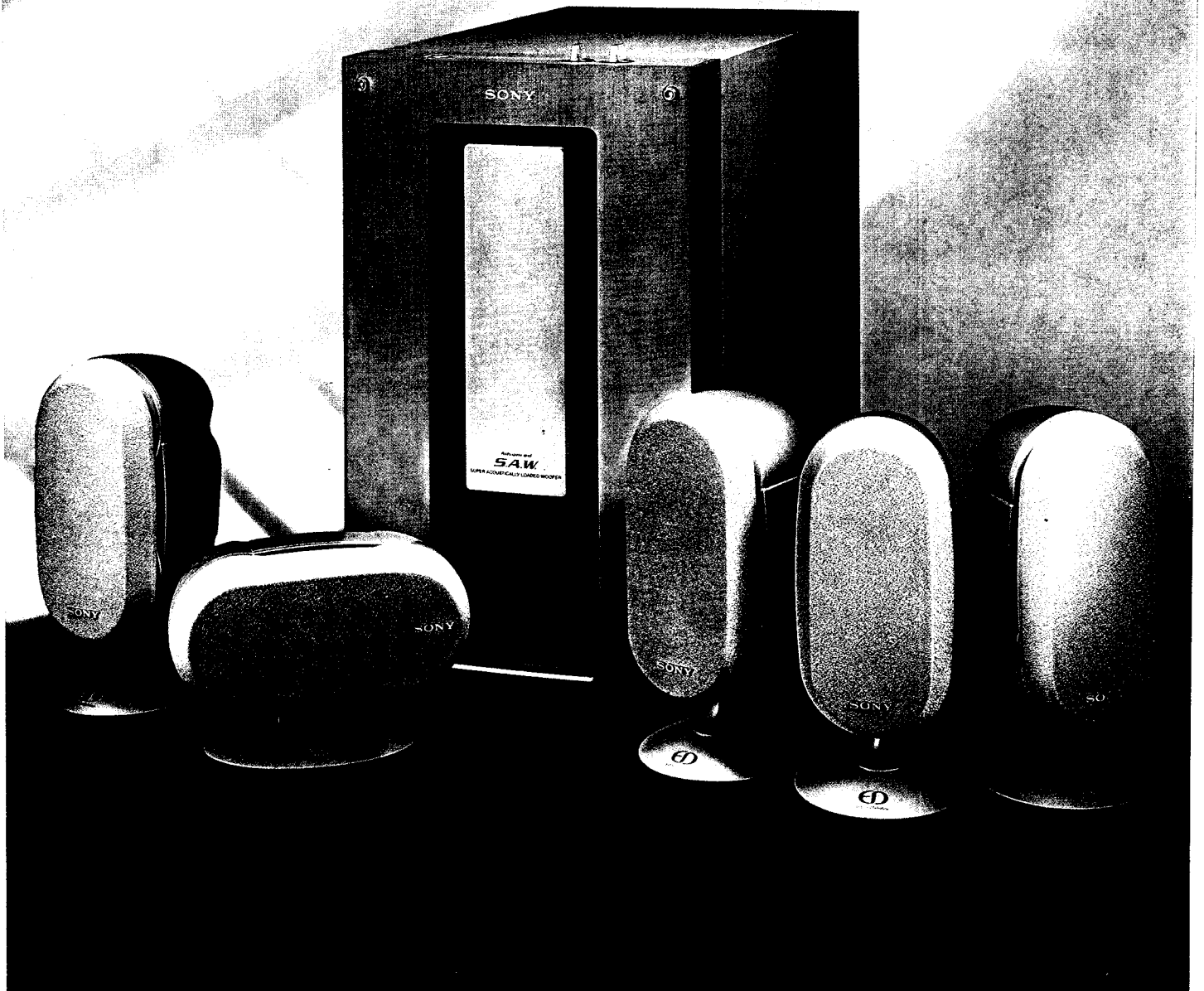
<sup>1</sup> Multi-brand remote: may not be compatible with all brands and models.

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**SONY**

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<http://www.sony.com/homeentertainment>

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2000 HOME AUDIO

# Loudspeakers

*Home theater has never sounded better*



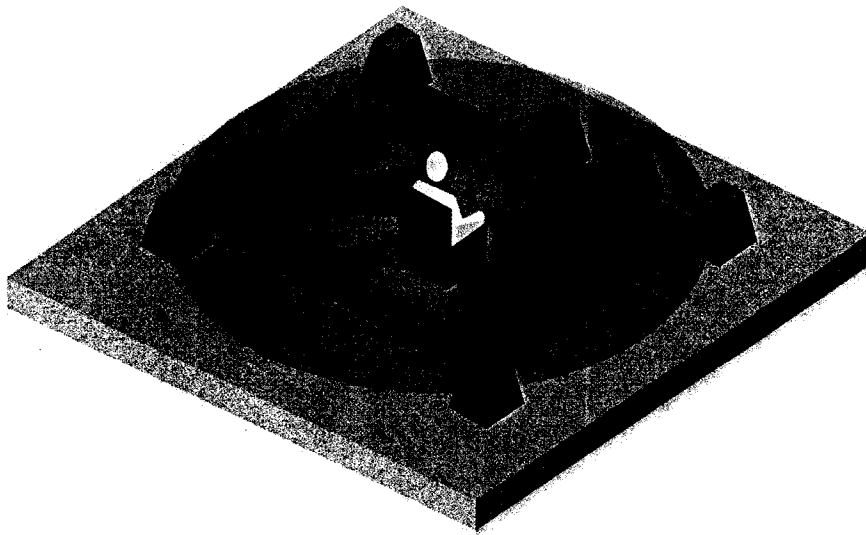
SONY HOME ENTERTAINMENT UNIVERSE

WHAT  
MULTI-CHANNEL  
HOME THEATER  
IS ALL ABOUT

You'll get it from DVD. From digital satellite broadcasts. From VHS Hi-Fi rentals and even from over-the-air television. You'll hear it in Dolby Digital™, dts™ and Dolby® Pro Logic® sources. It's high fidelity surround sound. But you'll never hear the magic of Home Theater from a simple pair of stereo speakers. And few surround sound solutions for Home Theater come close to Sony's.

**THE NEW AGE OF DOLBY DIGITAL™ SOUND**

DVD has it. Some Digital Satellite System programs have it. And the new DTV high-definition broadcasts have it, too. It's Dolby Digital surround sound. And it's fundamentally unlike anything that's come before. It's digital, so it produces CD-like sound. It's discrete, so all 5 channels produce sound across the full range of human hearing! It even offers a 6th or "1" channel to reproduce booming bass: the Low Frequency Effects (LFE) of today's Hollywood blockbusters. This is the cutting edge of surround sound. And it can be reproduced to the fullest on Sony speaker systems.



*Dolby Digital offers six separate channels. It's fully discrete. And full-bandwidth sound is available from any speaker in the system.*

*These speaker solutions are key components of the Sony Home Entertainment Universe. Sony delivers spectacular digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!*

SONY HOME ENTERTAINMENT UNIVERSE

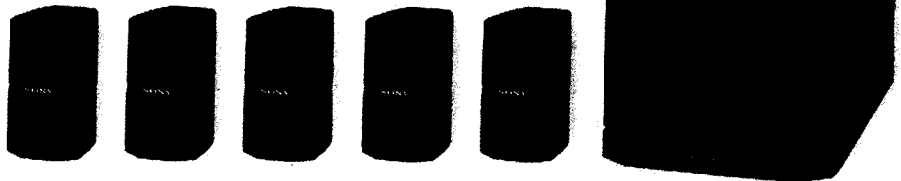
**HIGHLY ORIENTED POLYOLEFINE: A BETTER MATERIAL FOR BETTER SOUND**

The dynamic range of Dolby Digital sound tracks places stringent demands on the speakers that reproduce it. That's why Sony developed an exclusive loudspeaker cone material: Highly Oriented Polyolefine (HOP). It's extraordinarily strong, yet amazingly lightweight. You get dynamic sound with low distortion and extraordinary transient response.

**MATCHED SPEAKERS** With the Dolby Digital system, the surround channels are reproduced in full stereo, with the same full frequency response and dynamic range as the front. That's why Sony builds receivers with just as much power to the surround channels as to the front. And that's why we build speaker systems that offer the same quality front and rear!

**MAGNETIC SHIELDING** Loudspeakers incorporate magnets that, when placed too close to the television, can cause the pictures to bend and colors to bleed. That's why Sony bookshelf, floor-standing, front and center speakers all incorporate magnetic shielding. It cancels out magnetic fields, canceling interference. So you can place the speakers anywhere – even directly beside the television – without picture distortions and degradations.

*Matched speakers mean consistent sound quality all the way around.*



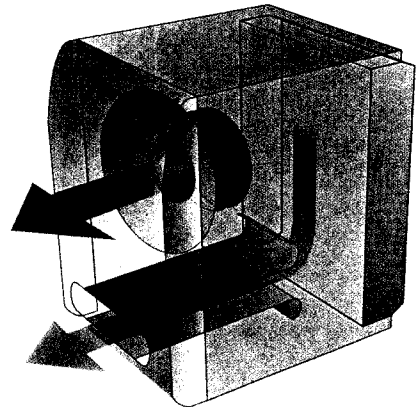
**ADVANCED SUPER ACTIVE WOOFER DESIGN**

It might be hidden out of view, but an important element of today's best home theater systems is the subwoofer. It's a specialized speaker that handles only the deep bass. And it helps put the finishing touch on everything from explosions and car crashes to film scores and symphonies.

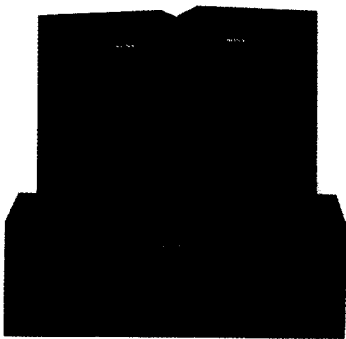
At these low frequencies, bass appears to come from everywhere. This "omni-directional" characteristic lets you position a subwoofer anywhere in the listening room – and still get proper surround sound imaging.

Sony subwoofers are "active," meaning they have built-in amplifiers for prodigious power. They also use our proprietary Super Active Woofer (SAW) enclosure design – enabling Sony to provide deep, powerful bass from highly space-efficient cabinets.

**COMPLETER SETS** Sony makes it easy to add surround sound to the speakers you already own. Our completer sets provide the Center and Surround channels, pre-matched and pre-packaged for your convenience.



*Sony's Advanced Super Active Woofer develops powerful bass from a cabinet that's compact.*

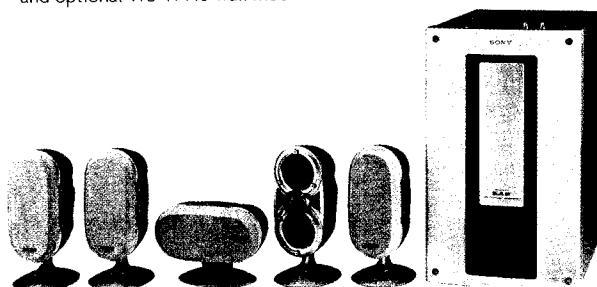


*Already have a pair of stereo speakers that you love? Keep them! And add a Sony completer set like the SS-CR490.*

### SA-VE815ED 6-SPEAKER SYSTEM

Complete speaker system for use with multi-channel A/V receivers  
Five matching Front, Surround, and Center Speakers  
Die-cast aluminum satellite speakers with integrated pedestals  
Neodymium tweeter rated to 70 kHz  
Dual 2-inch full-range drivers with 1-inch voice coils  
Neodymium magnets  
140 w maximum power handling (front, center, surround)  
Subwoofer amplifier: 150 watts into 8 ohms, 20 – 200 Hz, 0.8% THD  
Advanced SAW Bass Reflex subwoofer design with stylish, extruded aluminum front panel  
Subwoofer auto power on/off

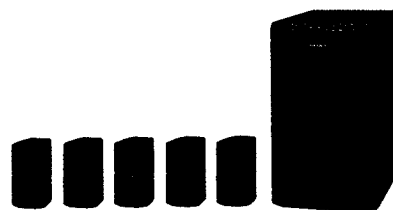
- Supplied audio and speaker cables
- Magnetically shielded
- Accept optional WS-FV10 floor stands and optional WS-WV10 wall mounts



### SA-VES05 6-SPEAKER SYSTEM

Complete speaker system for use with multi-channel A/V receivers  
Five matching Front, Surround and Center Speakers  
Dual 2-inch full-range drivers with 1-inch voice coils  
Neodymium magnets  
120 w maximum power handling (front, center, surround)  
Active Subwoofer for the Dolby Digital or dts® Low Frequency Effects (LFE) channel  
Subwoofer amplifier: 100 watts, into 8 ohms, 20 – 200 Hz, 0.8% THD  
Subwoofer auto power on/off  
Advanced SAW Bass Reflex subwoofer design

- Supplied audio and speaker cables
- Magnetically shielded
- A/V Grey finish
- Accept optional WS-FV10 floor stands and optional WS-WV10 wall mounts



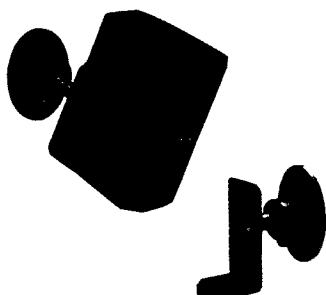
### SA-VE315 6-SPEAKER PACKAGE

Complete speaker system for use with multi-channel A/V receivers  
Four matching Front and Surround Speakers  
Low profile Center Speaker  
100 w maximum power handling (front, surround)  
120 w maximum power handling (center)  
Active Subwoofer with 75 watts into 8 ohms from 20 Hz - 200 Hz at 0.8% THD  
Magnetically shielded  
A/V Grey finish  
Accept optional WS-FV10 floor stands and optional WS-WV10 wall mounts



### WS-WV10 WALL MOUNTS

Mounting brackets for SA-VE815ED, VES05 and VE315 satellite speakers  
Enable flexible placement  
Two mounts per package



Shown with SA-VES05 satellite speaker

### IAD-IF70 WIRELESS SPEAKER INPUT ADAPTER

- Connects any conventional Receiver to the SA-IF70 wireless speaker package
- AC power adapter
- Input level control
- Dimensions (WHD): 3-1/2 x 2-3/4 x 4"





#### SA-IF70 WIRELESS SURROUND SPEAKER PACKAGE

- For use with Sony receivers equipped with wireless rear speaker outputs or in combination with the IAD-IF70 adapter for use with any receiver
- Wireless transmitter
- Two powered Surround speakers with built-in wireless receivers
- 3-inch full-range drive units
- 25 watts per Channel x 2, both channels driven into 8 ohms, from 60 to 20,000 Hz, at 0.8% THD



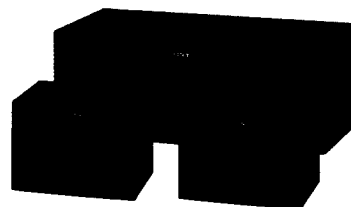
#### SS-CR490 CENTER/SURROUND COMPLETER PACKAGE

- 3-Speaker package complements your existing stereo speakers for multi-channel surround sound
- ▲ Two-way center speaker with dual 5-inch H.O.P. woofers and 1-inch dome tweeter
- ▲ Center speaker power handling 150 w maximum
- ▲ Two-way surround speakers with 5-inch H.O.P. woofers and 1-inch dome tweeters
- ▲ Surround speaker power handling 120 w maximum
- ▲ Highly Oriented Polyolefine (HOP) woofer cones resist distortion
- ▲ Ferro-fluid cooled tweeter voice coils enhance power handling
- Magnetically shielded center speaker
- ▲ Detachable grilles on all three speakers



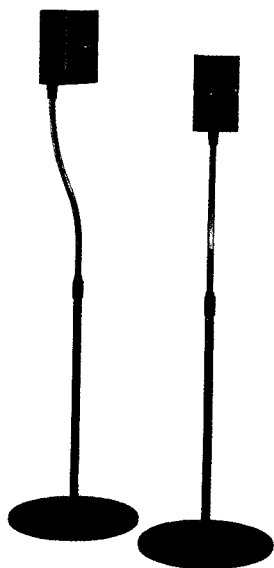
#### SS-CR290 CENTER/SURROUND COMPLETER PACKAGE

- 3-Speaker package complements your existing stereo speakers for multi-channel surround sound
- Two-way center speaker with dual 5-inch cones woofers and 3/4-inch Ferro-fluid cooled tweeter
- Center speaker power handling 120 w maximum
- Surround speakers with 5-inch full-range cones
- Surround speaker power handling 100 w maximum
- Magnetically shielded center speaker
- A/V Grey finish



#### WS-FV10 FLOOR STANDS

- For use with SA-VE815ED, VE505 and VE315 satellite speakers
- Adjustable height
- Hollow tubes hide speaker cable
- Stand head designed to conceal wire connection
- Two stands per package



Stands shown with SA-VE505 satellite speakers

#### SS-CN490 CENTER CHANNEL SPEAKER

- For center channel information in Dolby Digital, dts and Dolby Pro Logic surround sound
- ▲ Dual 5-inch Highly Oriented Polyolefine (HOP) woofer cones resist distortion
- ▲ 1-inch Ferro-fluid cooled dome tweeter for high power handling
- ▲ Power handling 150 w maximum
- Magnetically shielded
- ▲ Detachable grille
- A/V Grey finish



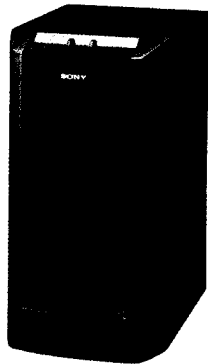
#### SS-CN290 CENTER CHANNEL SPEAKER

- For center channel information in Dolby Digital, dts and Dolby Pro Logic surround sound
- Dual 5-inch cones
- 3/4-inch Ferro-fluid cooled dome tweeter for high power handling
- Power handling 120 w maximum
- Magnetically shielded
- A/V Grey finish



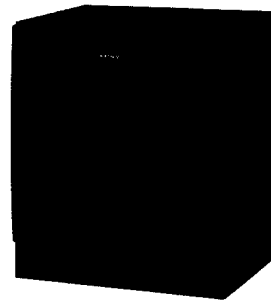
#### SA-W305 ACTIVE SUBWOOFER

- Built-in amplifier with 60 watts into 8 ohms from 20 Hz - 200 Hz at 9% THD
- Advanced SAW (Super Acoustically Loaded) bass reflex design
- 6-1/4-inch long-throw driver
- Level control
- Variable high-cut frequency
- Line-level and speaker-level inputs
- Omni-directional bass
- Phase invert switch
- Line output for additional subwoofer



#### SA-WM40 ACTIVE SUBWOOFER

- ▲ Built-in amplifier with 120 watts into 8 ohms from 20 Hz - 200 Hz at 0.8% THD
- Advanced SAW (Super Acoustically Loaded) bass reflex design
- ▲ 12-inch long-throw driver
- Level control
- Variable high-cut frequency, 50 - 170 Hz
- ▲ Auto power on/off
- Line-level and speaker-level inputs
- Omni-directional bass
- Phase invert switch
- Line output for additional subwoofer



**6-SPEAKER SYSTEM** The essential tool for reproducing Dolby Pro Logic, Dolby Digital and dts surround sound. Systems include magnetically-shielded Left, Right and Center speakers, a pair of Surround speakers plus a subwoofer for the Dolby Digital or dts Low Frequency Effects (LFE) channel.

**ACOUSTIC SUSPENSION** This classic high-fidelity speaker cabinet design offers deep, extremely accurate bass from a small enclosure.

**ACTIVE SUBWOOFER** A component that combines a specialized speaker for deep bass with a built-in amplifier to provide power. Active subwoofers are often the secret to impressive home theater special effects sound.

**BASS REFLEX** This speaker cabinet design vastly increases bass output. You also get high Sound Pressure Levels (SPL).

**COMPLETER PACKAGES** If you already have a pair of stereo speakers that work well for you, Sony 3-piece completer packages add the missing links: Center and Surround speakers.

**DOLBY DIGITAL SURROUND SOUND** It's found in DVD, in some Digital Satellite System programs - and in the just-launched DTV broadcasts. This is digital surround sound that is far more dynamic, spacious and realistic. The system generates 5.1 separate channels of sound for 5 speakers: Left, Right, Center, Left-Surround, Right-Surround and the ".1" Low Frequency Effects (LFE) channel for a Subwoofer.

**DOLBY PRO LOGIC SURROUND SOUND** The classic system that brings home the excitement and emotional impact of movie sound tracks. Dolby Pro Logic sound tracks are encoded in many VHS Hi-Fi movies, TV dramas and sports broadcasts. This is a four-channel system, requiring Left, Right, Center and Surround speakers.

**DOMES TWEETERS** These deliver extended high frequency response. Small 1" and 3/4" diameters assure broad dispersion of high frequencies throughout your listening room.

**DTS (DIGITAL THEATER SYSTEM) SURROUND SOUND** Digital multi-channel sound system found in selected DVDs and CDs. Offers true digital sound quality and a low-frequency effects channel ideal for subwoofers.

**FERRO-FLUID COOLING** When the going gets tough, tweeter voice coils tend to heat up - and in extreme conditions, burn out. Sony injects ferro fluid into the voice coil gap. It helps conduct heat away from the tweeter voice coil, increasing the power handling of the entire system!

**H.O.P.** Sony's exclusive Highly Oriented Polyolefine is a speaker cone material of extraordinary strength. It's up to 30 times more rigid, per unit weight, than polypropylene. You get a woofer of low distortion and extraordinary transient response.

**MAGNETIC SHIELDING** Loudspeakers incorporate magnets that can distort your TV picture, causing pictures to bend and colors to bleed. Sony's Front and Center speakers cancel out magnetic fields for minimum interference.

**MULTI-CHANNEL SURROUND SOUND** The technology responsible for the world of difference between television and home theater. Multi-channel sources include many stereo TV shows (including dramas and sports), VHS Hi-Fi videocassettes, laserdiscs, DVDs, satellite television and the new Digital TV (DTV) broadcasting. Popular multi-channel formats include Dolby Digital, dts and Dolby Pro Logic encoding.

**OMNI-DIRECTIONAL BASS** The human ear can't sense the directional source of bass below 200 Hz. Because bass seems to come from everywhere, it's called "omni-directional." That's how one subwoofer can handle the deep bass for the entire system.

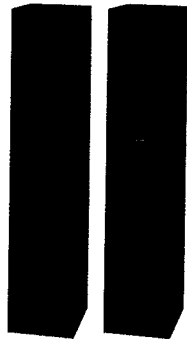
**PRE-STRIPPED SPEAKER CABLE** With many of the speaker packages, there's no need to reach for wire strippers, scissors or knives to strip off insulation. And with convenient push-terminals all the way around, you won't even need a screwdriver!

**SUPER ACOUSTICALLY LOADED** Sony's patented subwoofer design provides bass all the way down to the lowest musical frequencies (20 Hz) from a compact cabinet.

	SA-VE815ED	SA-VE505	SA-VE315	SA-WM40	SA-W305	
Type	6-speaker system	6-speaker system	6-speaker system	Subwoofer	Subwoofer	
FRONT SPEAKERS	SS-MS815	SS-MS5	SS-V315	—	—	
Woofer Size	Two 2" (50 mm)	Two 2" (50 mm)	2" x 4" (50 x 100 mm)	—	—	
Tweeter Size	1" dome (19 mm)	—	—	—	—	
Power Handling, Max.	140 w	120 w	100 w	—	—	
Enclosure	Bass Reflex	Bass Reflex	Bass Reflex	—	—	
Dimensions, each (W x H x D)	3-3/8 x 6-5/8 x 5-1/8" (86 x 169 x 130 mm)	3 x 5-1/8 x 4-1/8" (77 x 131 x 105 mm)	2-3/4 x 6 x 5" (70 x 150 x 125 mm)	—	—	
Weight, each	2 lb, 14 oz (1.3 kg)	1 lb, 10 oz (730 g)	1 lbs, 13 oz (820 g)	—	—	
CENTER SPEAKER	SS- MS815	SS-MS5	SS-CN315	—	—	
Driver Size	Two 2" + 1" (50 + 19 mm)	Two 2" (50 mm)	2" x 4" (50 x 100 mm)	—	—	
Power Handling, Max.	140 w	120 w	120 w	—	—	
Dimensions (W x H x D)	3-3/8 x 6-5/8 x 5-1/8" (86 x 169 x 130 mm)	3 x 5-1/8 x 4-1/8" (77 x 131 x 105 mm)	12 x 2-3/4 x 5" (300 x 70 x 125 mm)	—	—	
Weight	2 lb, 14 oz (1.3 kg)	1 lb, 10 oz (730 g)	4 lbs, 3 oz (1.9 kg)	—	—	
SURROUND SPEAKERS	SS- MS815	SS-MS5	SS-V315	—	—	
Driver Size	Two 2" + 1" (50 mm + 19 mm)	Two 2" (50 mm)	2" x 4" (50 x 100 mm)	—	—	
Power Handling, Max.	140 w	120 w	100 w	—	—	
Dimensions, each	3-3/8 x 6-5/8 x 5-1/8" (86 x 169 x 130 mm)	3 x 5-1/8 x 4-1/8" (77 x 131 x 105 mm)	2-3/4 x 6 x 5" (70 x 150 x 125 mm)	—	—	
Weight, each	2 lb, 14 oz (1.3 kg)	1 lb, 10 oz (730 g)	1 lbs, 13 oz (820 g)	—	—	
ACTIVE SUBWOOFER	SA-WMS815	SA-WMS5	SA-WMS315	SA-WM40	SA-W305	
Power Output, one channel, 8 W, 20 – 200 Hz, 0.8% THD	150 watts	100 watts	75 watts	120 watts	60 watts, 9% THD	
Driver Size	8" (20 cm)	8" (20 cm)	6-1/4" (16 cm)	12"	6-1/4"	
Dimensions (W x H x D)	9 x 15-1/2 x 19-1/2" (230 x 395 x 495 mm)	9 x 15 x 18-1/4" (230 385 x 465 mm)	8 x 15-1/8 x 15-1/8" (205 x 385 x 385 mm)	14-1/4 x 16-7/8 x 16-1/2" (362 x 429 x 419 mm)	8 x 5-3/4 x 15-1/2" (205 x 145 x 395 mm)	
Weight	38 lbs, 8 oz (17.5 kg)	28 lbs, 10 oz (13 kg)	23 lbs, 2 oz (10.5 kg)	32 lbs, 14 oz (14.9 kg)	21 lbs	
Type	SS-CR490 Completer system	SS-CR290 Completer system	SS-CN490 Center speaker	SS-CN290 Center speaker	SA-IF70 Wireless Surround	
CENTER SPEAKER	SS-CN490	SS-CN290	SS-CN490	SS-CN290	—	
Driver Size	Two 5" + 1" (120 mm + 25 mm)	Two 5" + 3/4" (120 mm + 20 mm)	Two 5" + 1" (120 mm + 25 mm)	Two 5" + 3/4" (Two 120 mm + 20 mm)	—	
Power Handling, Max.	150 w	120 w	150 w	120 w	—	
Dimensions	17 x 6 x 7-1/2" (430 x 150 x 190 mm)	15 x 6 x 6-5/8" (380 x 150 x 168 mm)	17 x 6 x 7-1/2" (430 x 150 x 190 mm)	15 x 6 x 6-5/8" (380 x 150 x 168 mm)	—	
Weight	10 lbs (4.5 kg)	7 lbs, 11 oz (3.5 kg)	10 lbs (4.5 kg)	7 lbs, 11 oz (3.5 kg)	—	
SURROUND SPEAKERS	SS-SR40	SS-SR290	—	—	SA-IF170	
Driver Size	5" + 1" (120 mm + 25 mm)	5" (120 mm)	—	—	4" (100 mm) w/ amplifier	
Power Handling, Max.	120 w	100 w	—	—	N/A	
Dimensions, each	6-3/4 x 10 x 4" (170 x 250 x 100 mm)	7-1/2 x 6 x 6-5/8" (190 x 150 x 168 mm)	—	—	5-1/8 x 9-1/8 x 7-1/4" (130 x 230 x 185 mm)	
Weight, each	4 lbs, 7 oz (2.0 kg)	3 lbs, 5 oz (1.5 kg)	—	—	6 lbs, 6 oz (3.0 kg)	
Type	SS-MF515	SS-MF415	SS-MF315	SS-MB215	SS-MB115	SS-MB105
Woofer Size	Two 6-1/4" (160 mm)	Two 6-1/4" (160 mm)	6-1/4" (160 mm)	8" (200 mm)	6-1/4" (160 mm)	5" (127 mm)
Midrange Size	3" (80 mm)	—	3" (80 mm)	3" (80 mm)	—	—
Tweeter Size	1" (25 mm)	1" (25 mm)	3/4" (20 mm)	3/4" (20 mm)	3/4" (20 mm)	3/4" (20 mm)
Enclosure	Bass Reflex	Bass Reflex	Bass Reflex	Acoustic Suspension	Acoustic Suspension	Bass Reflex
Frequency Range	30–20,000Hz	40–20,000Hz	50–20,000Hz	50–20,000Hz	60–20,000Hz	80–20,000Hz
Power Handling, Max.	200 w	200 w	150 w	120 w	100 w	100 w
Sensitivity (dB/w/m)	89 dB	89 dB	89 dB	90 dB	89 dB	89 dB
Dimensions, each (W x H x D)	8-3/4 x 41-3/8 x 11" (220 x 1050 x 280 mm)	8-3/4 x 37-1/2 x 11" (220 x 950 x 282 mm)	8-3/4 x 33-1/2 x 11" (220 x 850 x 282 mm)	11-1/4 x 21-5/8 x 11" (285 x 550 x 282 mm)	8-3/4 x 14-5/8 x 9-1/2" (220 x 370 x 240 mm)	6-3/4 x 10 x 6-3/8" (170 x 250 x 162 mm)
Weight, each	33 lbs (15 kg)	26 lbs, 7 oz (12.0 kg)	20 lbs, 14 oz (9.5 kg)	14 lbs, 8 oz (6.6 kg)	8 lbs, 13 oz (4.0 kg)	6 lbs (2.7 kg)

**SS-MF515 FLOOR-  
STANDING SPEAKER**

- ▲ 3-way, 4-driver floor-standing speaker
- Dual 6-1/4 inch woofers with Highly Oriented Polyolefine (HOP) cones to resist distortion
- ▲ 3-inch Hi-polymer coated midrange drive unit
- 1-inch ferro-fluid cooled dome tweeter
- 200 w maximum power handling
- Bass reflex enclosure
- Magnetically shielded
- A/V Grey finish
- ▲ Screw-type binding posts
- One pair per package



**SS-MF415 FLOOR-  
STANDING SPEAKER**

- 2-way, 3-driver floor-standing speaker
- ▲ Dual 6-1/4 inch woofers with Highly Oriented Polyolefine (HOP) cones to resist distortion
- ▲ 1-inch ferro-fluid cooled dome tweeter
- ▲ 200 w maximum power handling
- Bass reflex enclosure
- Magnetically shielded
- A/V Grey finish
- One pair per package



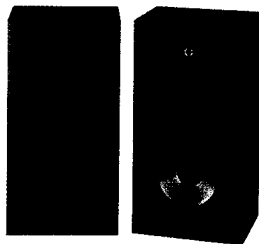
**SS-MF315 FLOOR-  
STANDING SPEAKER**

- ▲ 3-way floor-standing speakers
- 6-1/4 inch woofer with Highly Oriented Polyolefine (HOP) cone to resist distortion
- 3-inch Hi-polymer coated midrange drive unit
- 3/4-inch ferro-fluid cooled dome tweeter
- ▲ 150 w maximum power handling
- Bass reflex enclosure
- Magnetically shielded
- A/V Grey finish
- One pair per package



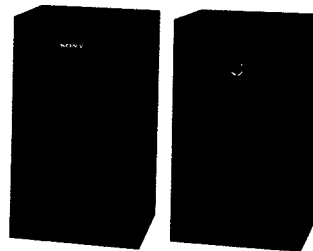
**SS-MB215  
BOOKSHELF SPEAKER**

- ▲ 3-way bookshelf speakers
- ▲ 8-inch woofer with Highly Oriented Polyolefine (HOP) cone to resist distortion
- ▲ 3-inch Hi-polymer coated midrange drive unit
- 3/4-inch ferro-fluid cooled dome tweeter
- ▲ 120 w maximum power handling
- Acoustic Suspension Bass Loading
- Magnetically shielded
- A/V Grey finish
- One pair per package



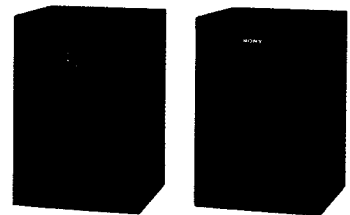
**SS-MB115  
BOOKSHELF SPEAKER**

- 2-way bookshelf speakers
- ▲ 6-1/4 inch woofer with Highly Oriented Polyolefine (HOP) cone to resist distortion
- 3/4-inch ferro-fluid cooled dome tweeter
- 100 w maximum power handling
- Acoustic Suspension Bass Loading
- Magnetically shielded
- A/V Grey finish
- One pair per package



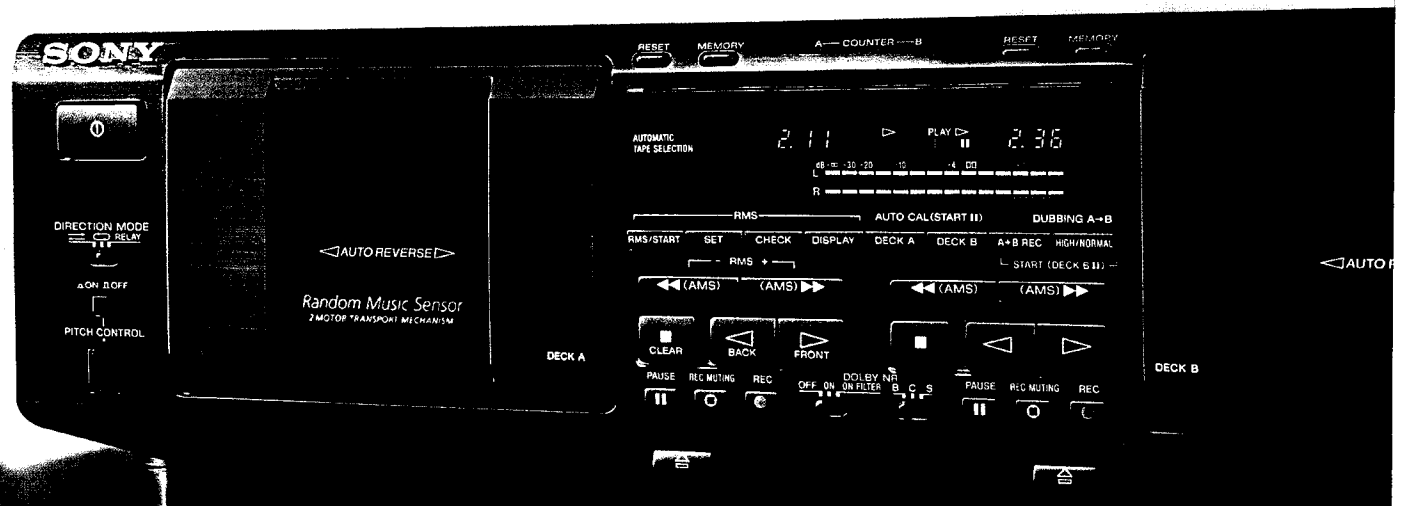
**SS-MB105  
BOOKSHELF SPEAKER**

- 2-way compact bookshelf speakers
- 5-inch woofer with Highly Oriented Polyolefine (HOP) cone to resist distortion
- 3/4-inch ferro-fluid cooled dome tweeter
- 100 w maximum power handling
- Bass reflex enclosure
- Magnetically shielded
- A/V Grey finish
- One pair per package



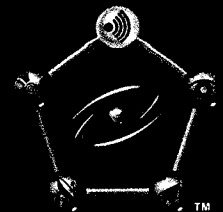
FEATURES AND  
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**SONY**



# Cassette Decks

Analog recorders for the new millennium

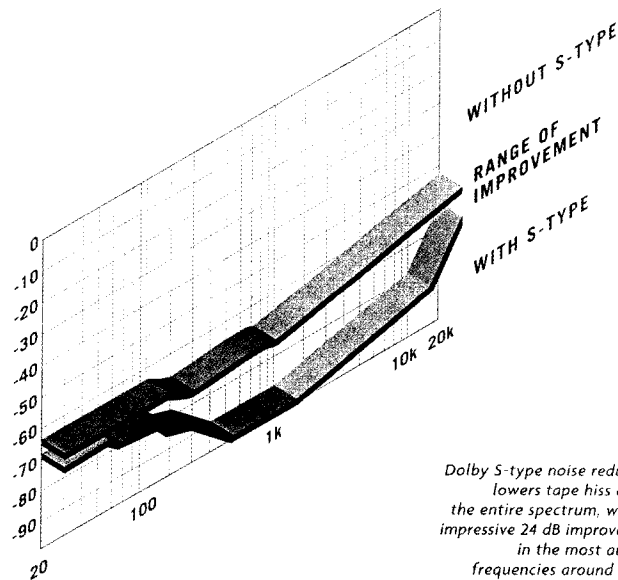


SONY HOME ENTERTAINMENT UNIVERSE

CASSETTE  
PERFORMANCE  
ACHIEVES  
THE NEXT PLATEAU

Just how good can analog cassettes possibly be? By the evidence of these Sony cassette decks, very good, indeed. Dolby® S-type noise reduction vanquishes tape hiss – yielding music against a background of silence. Smooth, stable two-motor tape transports reproduce music in clear, unwavering tones. And a long list of conveniences makes music substantially easier to record, play and access. Whether you're making dance mixes for the living room, tapes for the car or tunes to go jogging with, you owe it to yourself to experience Sony cassette decks.

**DOLBY® S NOISE REDUCTION** The most advanced cassette noise reduction from Dolby Laboratories is S-type. The system acts across the audible spectrum, with some 24 dB of noise reduction at the crucial middle frequencies and 8 dB at the lowest bass. The result is cassette recording so clean and quiet, it approaches the sound quality of digital sources. And Dolby S tapes are highly compatible for playback with portables, equipped with the common Dolby B-type noise reduction.



These cassette recorders are key components of the Sony Home Entertainment Universe. Sony delivers spectacular analog and digital sound. Compelling digital sights. And the digital entertainment sources that make it all worthwhile. This amazing sensory experience can be yours when you bring together Sony audio, Sony video and Sony television!

SONY HOME ENTERTAINMENT UNIVERSE

### DOLBY HX PRO® HEADROOM EXTENSION

By constantly varying the amount of recording bias according to the music's high-frequency content, this clever circuit boosts high-frequency headroom. And the system is compatible with any playback deck, whether or not it has HX Pro circuitry.

**THREE-HEAD DESIGN** Recording is a high-energy process that benefits from a wide head gap. Playback is a low-energy process that benefits from a narrow gap. That's why record/play heads are typically a compromise. To achieve the ultimate in performance, the TC-KE500S is a three-head design, with separate heads optimized for each function: Erase, Record and Play.

**SONY SUPER BIAS™ CIRCUITRY** A low bias frequency can cause beat frequencies: harmonics that interfere with the music. That's why Sony's Super Bias circuitry operates at 160 kHz. You get clear, extended high-frequency response.

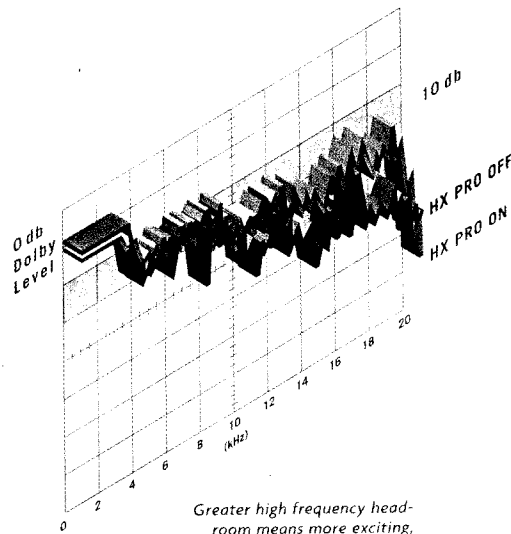
**HIGH-SPEED DUBBING** For the ultimate in convenience, Sony dual-well cassette decks are actually two high-fidelity recorders in one. They offer high-speed dubbing, for faster than real-time editing of cassettes. Two models with twin recording let you make two tapes at once. Sequential recording enables you to capture three hours of music in a single pass. And Relay Play provides three hours of playback from a pair of C-90 cassettes.



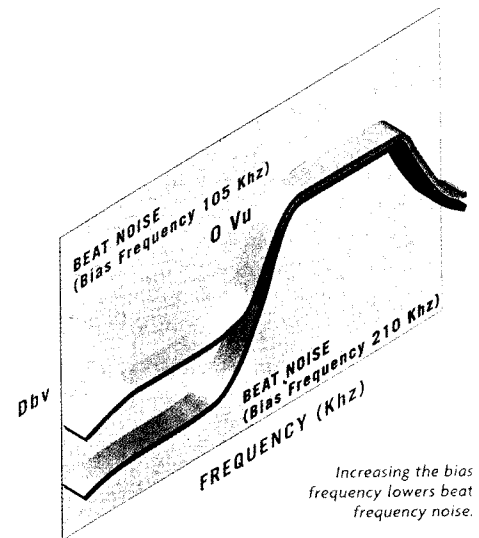
Pitch Control

**FEATHER-TOUCH CONTROLS** Sony's feather touch design replaces the complexity of mechanical levers, cams and gears with the simplicity of electronic actuation. This full logic design lets you press keys in any sequence. For example, you can go from Fast Forward to Rewind without first pressing Stop. There's more. Electronic feather-touch controls also enable remote capability, with a compatible Sony receiver remote control.

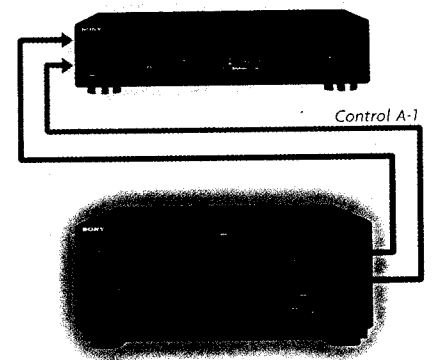
**WIDE-RANGE PITCH CONTROL** If you're a singer or a musician, you'll appreciate the pitch control on the TC-WE835S. It lets you adjust the tape speed to vary the musical pitch of playback. So you can "tune" the music to your instrument or voice!



Greater high frequency headroom means more exciting, more impactful sound. That's the idea behind Dolby HX Pro headroom extension.



Increasing the bias frequency lowers beat frequency noise.



Sony's Control A-1 system integrates and simplifies system operation.

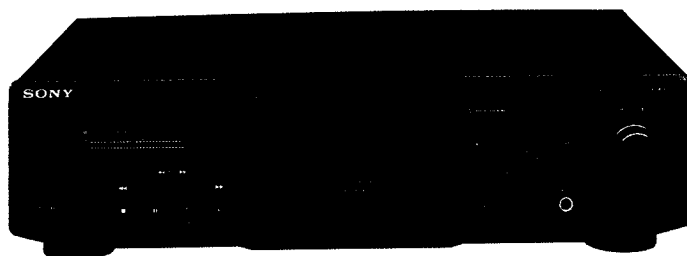
### TC-KE500S THREE-HEAD CASSETTE DECK

- ▲ Three heads with tape monitoring
- Dolby S-type noise reduction
- Dolby B and C noise reduction
- Dolby HX Pro circuitry
- Ultra-stable 2-motor tape transport
- Mid-Ship drive
- ▲ 160 kHz Super Bias circuitry
- ▲ Fet Playback Amplifier
- Sorbothane® cassette stabilizer
- Ceramic cassette holder
- Switchable MPX filter
- ▲ Linear counter of minutes and seconds
- ▲ High-speed fast forward and rewind
- Full-logic feather-touch transport controls



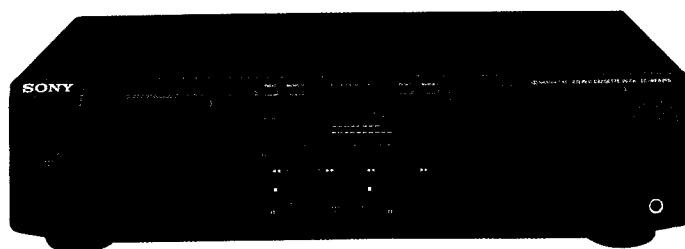
### TC-KE400 CASSETTE DECK

- Dolby S-type noise reduction
- Dolby B and C noise reduction
- Dolby HX Pro circuitry
- Ultra-stable 2-motor tape transport
- Full-logic feather-touch transport controls
- Multi-AMS track search
- ▲ Mid-Ship drive
- ▲ Sorbothane cassette stabilizer
- ▲ Ceramic cassette holder
- Switchable MPX filter
- Record calibration
- Electronic tape counter



### TC-WE835S DUAL AUTO REVERSE CASSETTE DECK

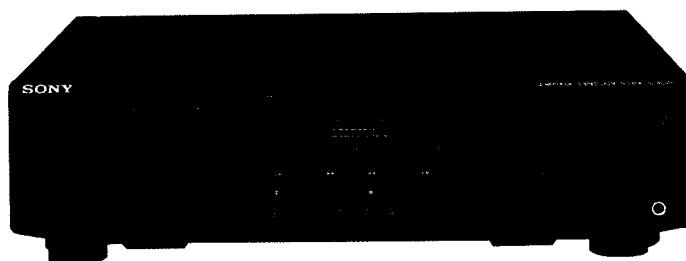
- Dual auto reverse
- Twin/Sequential recording
- Dual 2-motor tape transports
- ▲ Dolby S-type noise reduction
- Dolby B and C noise reduction
- Dolby HX Pro circuitry
- ▲ Twin linear counters of minutes and seconds
- Wide-range pitch control
- ▲ High-speed fast forward and rewind
- Control A-1 capability
- High-speed dubbing
- ▲ Supplied Remote Commander® remote control
- Auto record level
- Fader switch





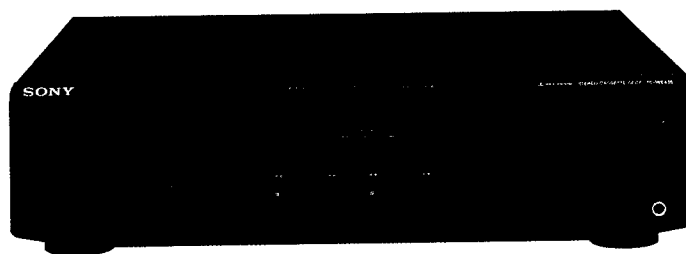
### TC-WE635 DUAL AUTO REVERSE CASSETTE DECK

- Dual auto reverse
- ▲ Twin/Sequential Recording
- ▲ Auto Record Calibration
- Dolby B and C noise reduction
- Dolby HX Pro circuitry
- ▲ RMS track programming
- ▲ Wide-range pitch control
- ▲ Switchable MPX filter
- Full-logic feather-touch transport controls
- Twin electronic counters
- Control A-1 capability
- High-speed dubbing
- Auto record level
- Fader switch



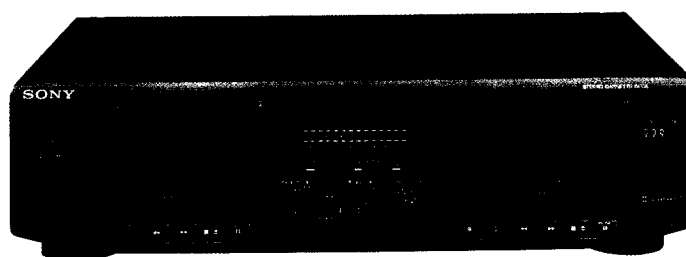
### TC-WE435 DUAL AUTO REVERSE CASSETTE DECK

- ▲ Dual auto reverse
- ▲ Dolby B and C noise reduction
- ▲ Dolby HX Pro circuitry
- ▲ Full-logic feather-touch transport controls
- ▲ Twin electronic counters
- ▲ Auto record level
- ▲ Multi-AMS track search
- ▲ Relay Play
- High-density Permalloy heads
- ▲ Control A-1 capability
- High-speed dubbing
- ▲ Remote control capable with Sony A/V receivers
- Fader switch



### TC-WE305 DUAL CASSETTE DECK

- Dual cassette
- Dolby B noise reduction
- High-speed dubbing
- High-density Permalloy heads
- Twin tape counters
- LED record level meters
- Fixed MPX filter



## TC-KE500S

## TC-KE400S

## TC-WE835S

## TC-WE635

## TC-WE435

## TC-WE305

## FEATURES

Number of Transports	1	1	2	2	2	2
Number of Heads	3	2	2+2	2+2	2+2	2+2
Number of Motors	2	2	2+2	1+1	1+1	1+1
Auto Reverse	—	—	Yes	Yes	Yes	—
Dolby Noise Reduction	B/C/S	B/C/S	B/C/S	B/C	B/C	B
Dolby HX Pro Circuit	Yes	Yes	Yes	Yes	Yes	—
Switchable MPX Filter	Yes	Yes	Yes	Yes	Fixed	Fixed
Super Bias Circuitry	160 kHz	—	—	—	—	—
Bias and Record Cal.	Yes	Record	Auto Record Cal	Auto Record Cal	—	—
Automatic Record Level	—	—	Yes	Yes	Yes	—
Automatic Monitor Switch	Yes	—	—	—	—	—
Record Monitoring	Yes	—	—	—	—	—
FET Playback Amplifier	Yes	—	—	—	—	—
High-Density Permalloy Head	Yes	Yes	Yes	Yes	Yes	Yes
Full-Logic Transport Controls	Yes	Yes	Yes	Yes	Yes	—
Mid-Ship Drive	Yes	Yes	—	—	—	—
Sorbothane Stabilizer	Yes	Yes	—	—	—	—
Ceramic Cassette Holder	Yes	Yes	—	—	—	—
High-Speed Fast Forward/Rewind	Yes	—	Yes	—	—	—
Wide-Range Pitch Control	—	—	Yes	Yes	—	—
Record Level Meter	16 FL	16 FL	14 FL	14 FL	14 FL	7 LED
Tape Counter	Linear	Electronic	Linear	Electronic	Electronic	Mechanical
Control AI	—	—	Yes	Yes	Yes	—
High-Speed Dubbing	—	—	Yes	Yes	Yes	Yes
Twin/Sequential Recording	—	—	Yes	Yes	—	—
Relay Play	—	—	Yes	Yes	Yes	—
RMS Track Programming	—	—	Yes	Yes	Yes	—
Multi-AMS Track Search	Yes	Yes	Yes	Yes	Yes	—
CD Synchro Record	—	—	Yes	Yes	Yes	—
Auto Play	Yes	Yes	Yes	Yes	Yes	—
Record Mute	Yes	Yes	Yes	Yes	Yes	—
Fader Switch	—	—	Yes	Yes	Yes	—
Remote Control	Capable	Capable	Supplied Remote Control	Capable	Capable	—

## SPECIFICATIONS

Frequency Response						
Type I, $\pm 3$ dB	30 – 17,000 Hz	30 – 14,000 Hz	30 – 16,000 Hz	30 – 16,000 Hz	30 – 16,000 Hz	30 – 13,000 Hz
Type II, $\pm 3$ dB	30 – 18,000 Hz	30 – 15,000 Hz	30 – 17,000 Hz	30 – 17,000 Hz	30 – 17,000 Hz	30 – 14,000 Hz
Type IV, $\pm 3$ dB	30 – 19,000 Hz	30 – 18,000 Hz	30 – 19,000 Hz	30 – 19,000 Hz	30 – 19,000 Hz	30 – 15,000 Hz
Signal-to-Noise Ratio						
Type I, Dolby NR off	57 dB	55 dB	55 dB	55 dB	55 dB	55 dB
Type II, Dolby NR off	59 dB	57 dB	57 dB	57 dB	57 dB	57 dB
Type IV, Dolby NR off	61 dB	58 dB	58 dB	58 dB	58 dB	58 dB
Wow and Flutter (WRMS)	0.055%	0.07%	0.07%	0.10%	0.10%	0.11%
Harmonic Distortion						
Type I @ 315 Hz	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
Type IV @ 315 Hz	1.5%	1.8%	1.8%	1.8%	1.8%	1.8%
Input Sensitivity and Impedance	0.16 V, 47 k $\Omega$	0.16 V, 47 k $\Omega$	0.16 V, 47 k $\Omega$	0.16 V, 47 k $\Omega$	0.16 V, 47 k $\Omega$	0.16 V, 47 k $\Omega$
Output Level and Impedance						
Line:	0.5 V, 47 k $\Omega$	0.5 V, 47 k $\Omega$	0.5 V, 47 k $\Omega$	0.5 V, 47 k $\Omega$	0.5 V, 47 k $\Omega$	0.5 V, 47 k $\Omega$
Headphones:	0.25 mW, 32 $\Omega$	0.25 mW, 32 $\Omega$	0.25 mW, 32 $\Omega$	0.25 mW, 32 $\Omega$	0.25 mW, 32 $\Omega$	—
Power Consumption	23 w	20 w	30 w	22 w	18 w	18 w
Dimensions (W x H x D)	17 x 4-3/4 x 12-1/4" (430 x 120 x 310 mm)	17 x 4-3/4 x 12-1/4" (430 x 120 x 310 mm)	17 x 4-3/4 x 11-1/2" (430 x 120 x 290 mm)	17 x 4-3/4 x 11-1/2" (430 x 120 x 290 mm)	17 x 4-3/4 x 11-1/2" (430 x 120 x 290 mm)	17 x 4-3/4 x 11-1/8" (430 x 120 x 280 mm)
Weight	9 lbs, 4 oz (4.2 kg)	7 lbs, 12 oz (3.5 kg)	9 lbs, 8 oz (4.3 kg)	8 lbs, 13 oz (4.0 kg)	8 lbs, 13 oz (4.0 kg)	8 lbs, 2 oz (3.7 kg)

**AUTO PLAY** Automatically shifts into Play after Rewind or Fast Forward.

**AUTOMATIC MONITOR SWITCH** The three-head TC-KE500S assists you by automatically selecting "Tape" when you enter the Play mode. An indicator confirms the selection.

**AUTOMATIC RECORD LEVEL** Senses incoming signals and sets levels for low noise, low distortion.

**AUTO RECORD CALIBRATION AND BIAS** System uses a built-in oscillator to optimize recording parameters, matching any specific tape.

**CD SYNCHRO RECORD** Simplifies making tapes from Compact Disc by releasing from Record/Pause mode when the CD Player goes into Play. Requires a compatible Sony CD Player.

**CERAMIC CASSETTE HOLDER** Dampens resonance around the tape transport mechanism.

**DOLBY B AND C NOISE REDUCTION** Record/playback circuitry that suppresses high frequency noise.

**DOLBY S-TYPE NOISE REDUCTION** Advanced system reduces noise, distortion, and high-frequency compression. Mid-frequency noise is reduced by 24 dB. Dolby S tapes perform well on car and portable cassette players equipped with Dolby B NR. (TC-WE835S)

**DUAL AUTO REVERSE DECKS** Play both sides of two cassettes automatically, with minimal interruption. (TC-WE835S)

**FADER SWITCH** Creates professional-sounding fade-in at the beginning of a song, fade-out at the end.

**FET PLAYBACK AMPLIFIER** Achieves extremely linear response, extremely low distortion.

**FLUORESCENT PEAK LEVEL METERS** Helps you set record levels.

**FULL-LOGIC FEATHER-TOUCH TRANSPORT CONTROLS** System that responds to even slight finger contact. Full logic lets you go directly between modes, for example, from Fast Forward to Rewind, without first pressing Play.

**HEADPHONE JACK** Enables private listening.

**HIGH-DENSITY PERMALLOY HEADS** Tape heads exert a major influence on tape sound. These offer high maximum flux density to reproduce music with wide dynamic range.

**HIGH-SPEED DUBBING** Makes editing tapes fast and easy. Decks also offer normal-speed dubbing for higher fidelity.

**HIGH-SPEED FAST FORWARD AND REWIND** Sony's high-speed transport is more than twice as fast as conventional decks – for less than half the waiting time!

**MID-SHIP DRIVE** This mechanical design reduces chassis flexing. Mid-Ship drive also places the tape transport between the power supply and the audio circuits to reduce radiated noise.

**MULTIPLE AMS TRACK SEARCH** Lets you automatically skip up to 9 tracks forward or back.

**RECORD MONITORING** A mode in a three-head deck (TC-KE500S) that lets you check the actual sound of your tape, while you're still recording it. Crucial for confirming sound quality.

**RECORD MUTE** A control that puts silent intervals between songs as you record.

**RELAY PLAY** A mode that automatically plays the cassette in deck B after deck A is finished. Relay Play and dual auto reverse deliver up to 3 hours of continuous music with two C-90 cassettes.

**REMOTE CAPABLE** You can operate the deck with the remote control of a compatible Sony receiver.

**REMOTE COMMANDER WIRELESS REMOTE CONTROL** For added convenience, the TC-WE835S comes supplied with its own wireless remote unit.

**RMS TRACK PROGRAMMING** This system plays songs in any sequence you choose.

#### **SORBOTHANE CASSETTE STABILIZER**

A vibration-absorbing pad that suppresses the spread of resonance through the cassette shell.

**SUPER BIAS CIRCUITRY** Operates at 160 kHz to reduce bias-induced beat frequencies. Promotes extended high frequency response. (TC-KE500S)

**SWITCHABLE MPX FILTER** This circuit blocks the 19 kHz multiplex pilot tone of FM stereo broadcasts. Switching it in enables proper Dolby NR tracking when you record off the air. Switching it out enables maximum high-frequency response in all other recording situations.

**THREE-HEAD DESIGN** This high-end system provides separate, individually optimized heads for Erase, Record, and Play. Promotes wide frequency response, extended dynamic range. (TC-KE500S)

**LINEAR TIME COUNTER** Displays tape time in minutes and seconds, instead of arbitrary counter numbers. Counter memory enables automatic rewind to the 00:00 point.

**TWIN/SEQUENTIAL RECORDING** A system that records two tapes at once or records two tapes sequentially. You get up to 3 hours of continuous recording on two C-90 cassettes.

**ULTRA-STABLE 2-MOTOR TRANSPORTS** Division of labor provides an extremely accurate motor to control record/playback speed and a heavy-duty motor for spooling, fast forward and rewind. Helps reduce wow & flutter. Delivers consistent performance on Side A and Side B.

**WIDE-RANGE PITCH CONTROL** Found on both the TC-WE835S and the WE635, this refinement alters the playback tape speed, adjusting the musical pitch to your singing voice or musical instrument.